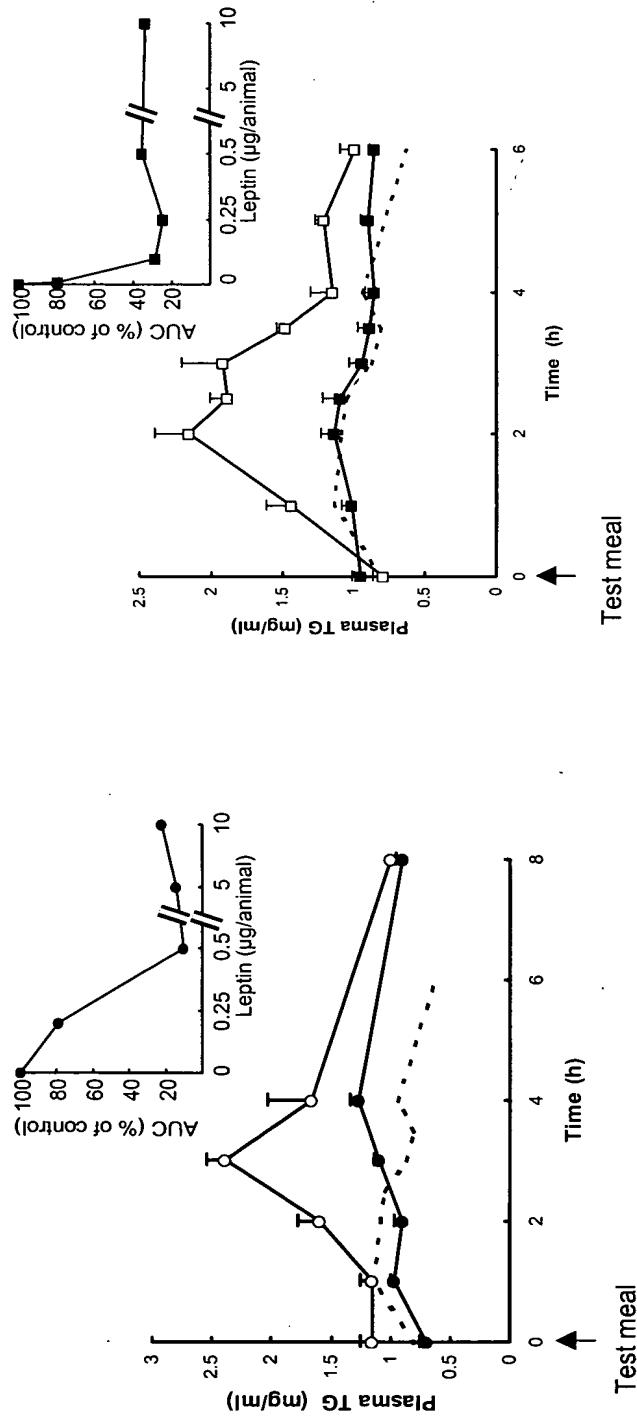
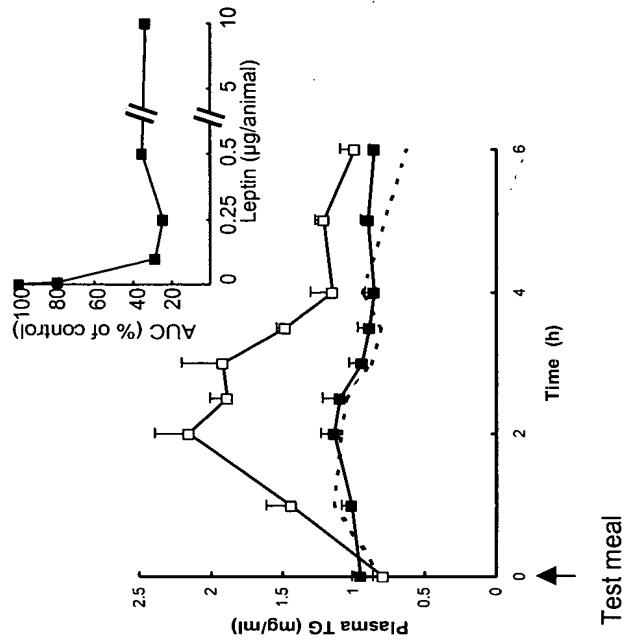


1A db/db 1B db^{Pas}/db^{Pas} **Figure 1**

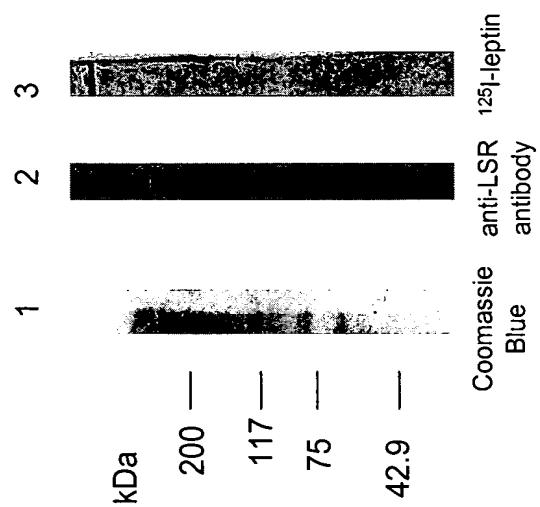
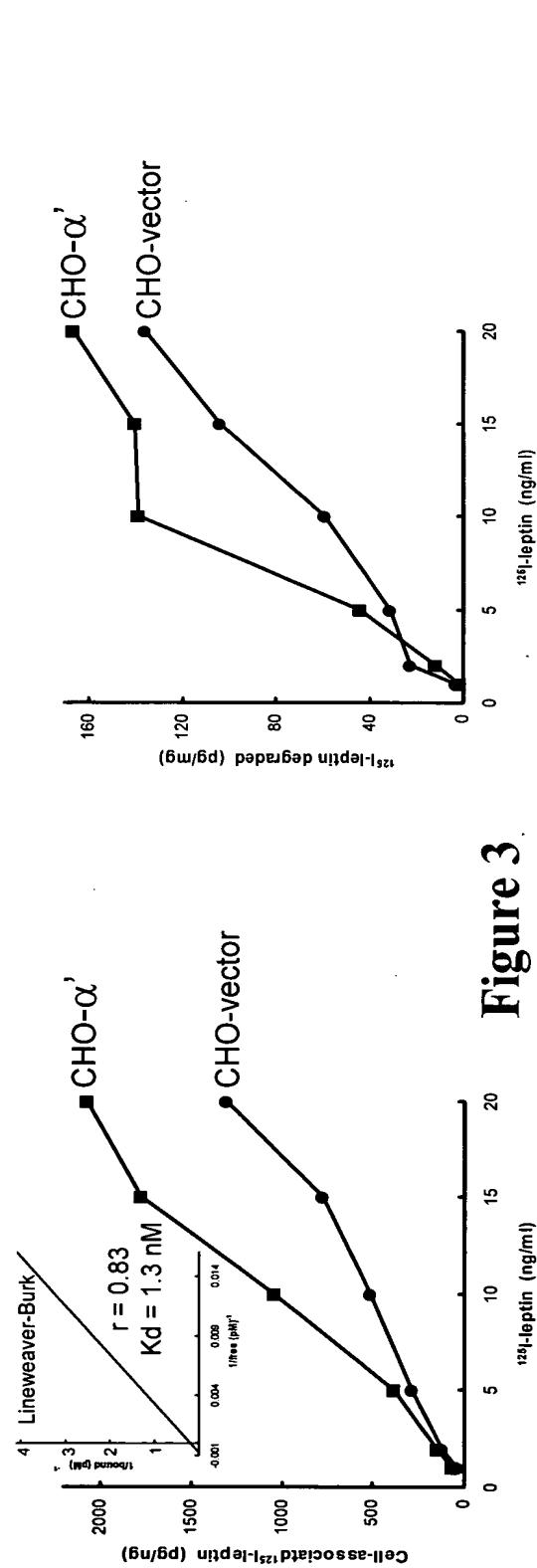
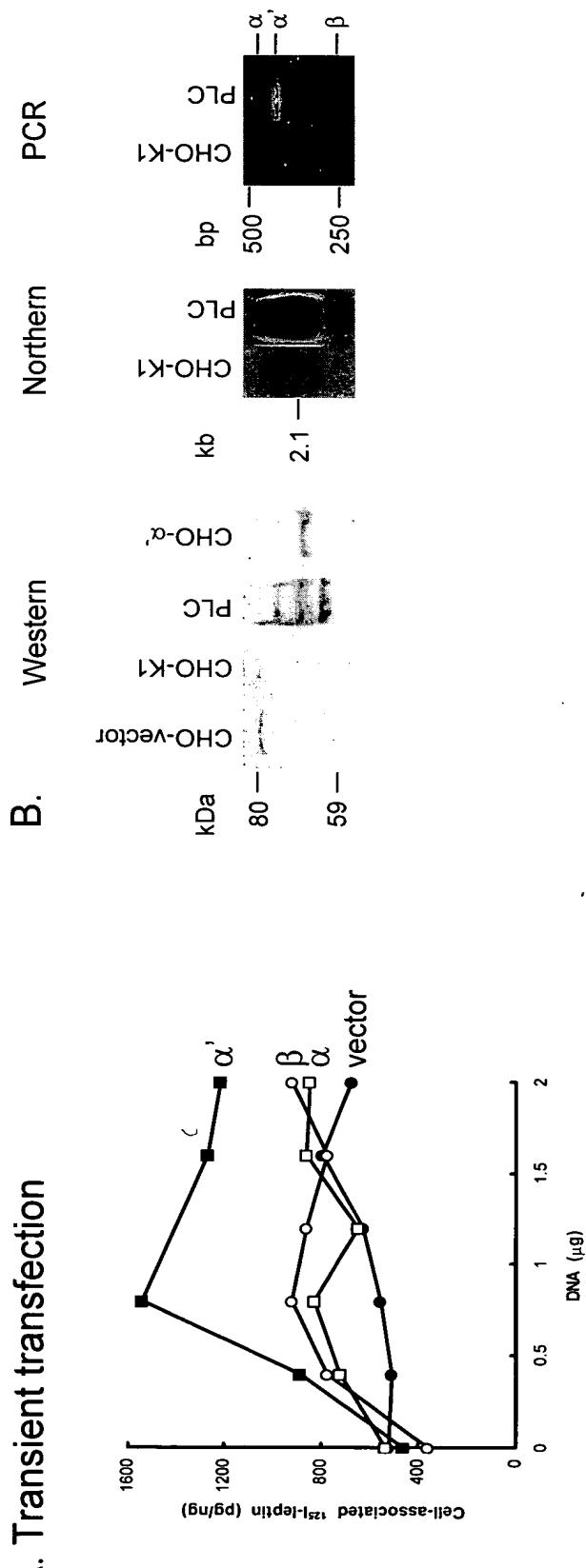
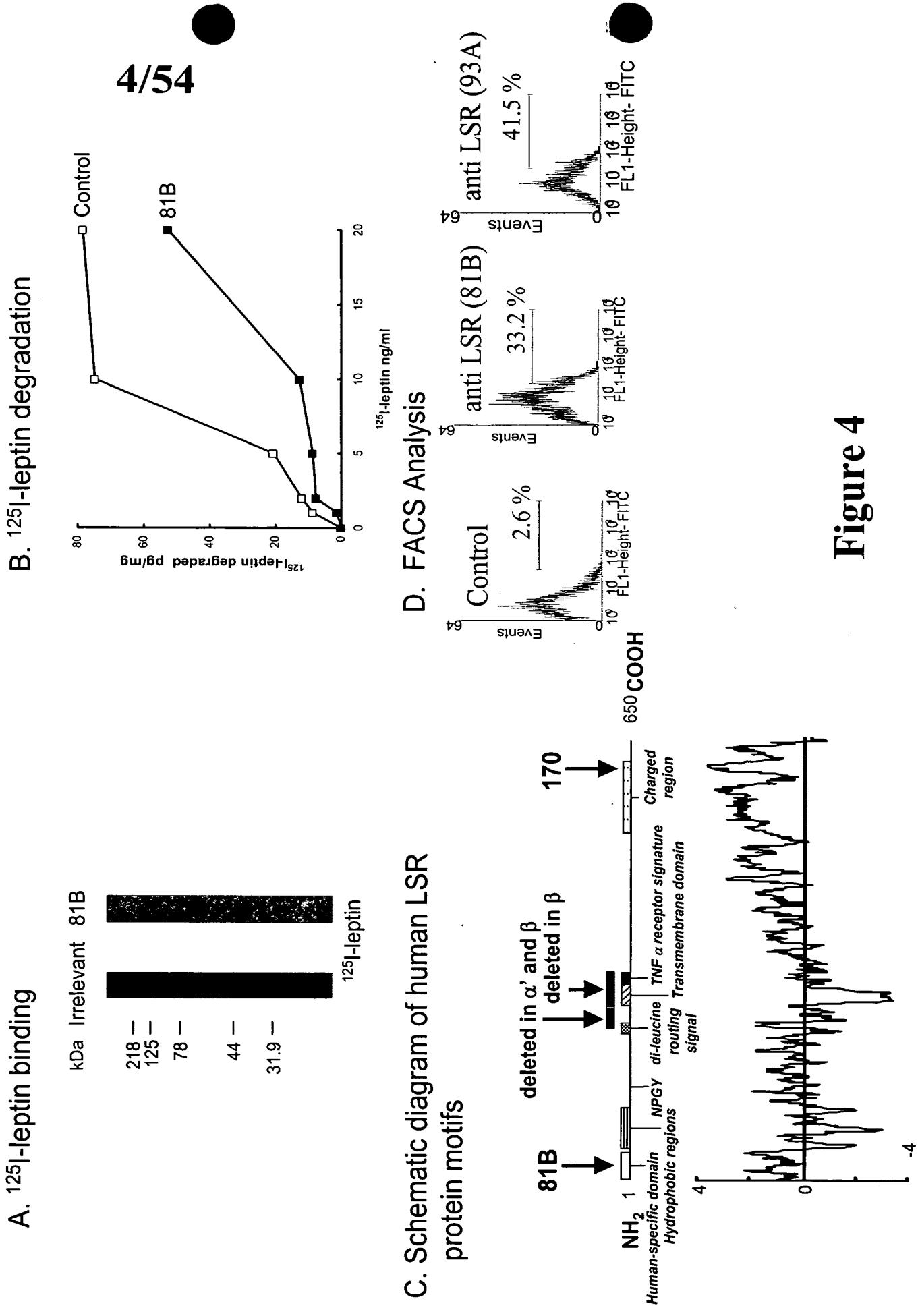
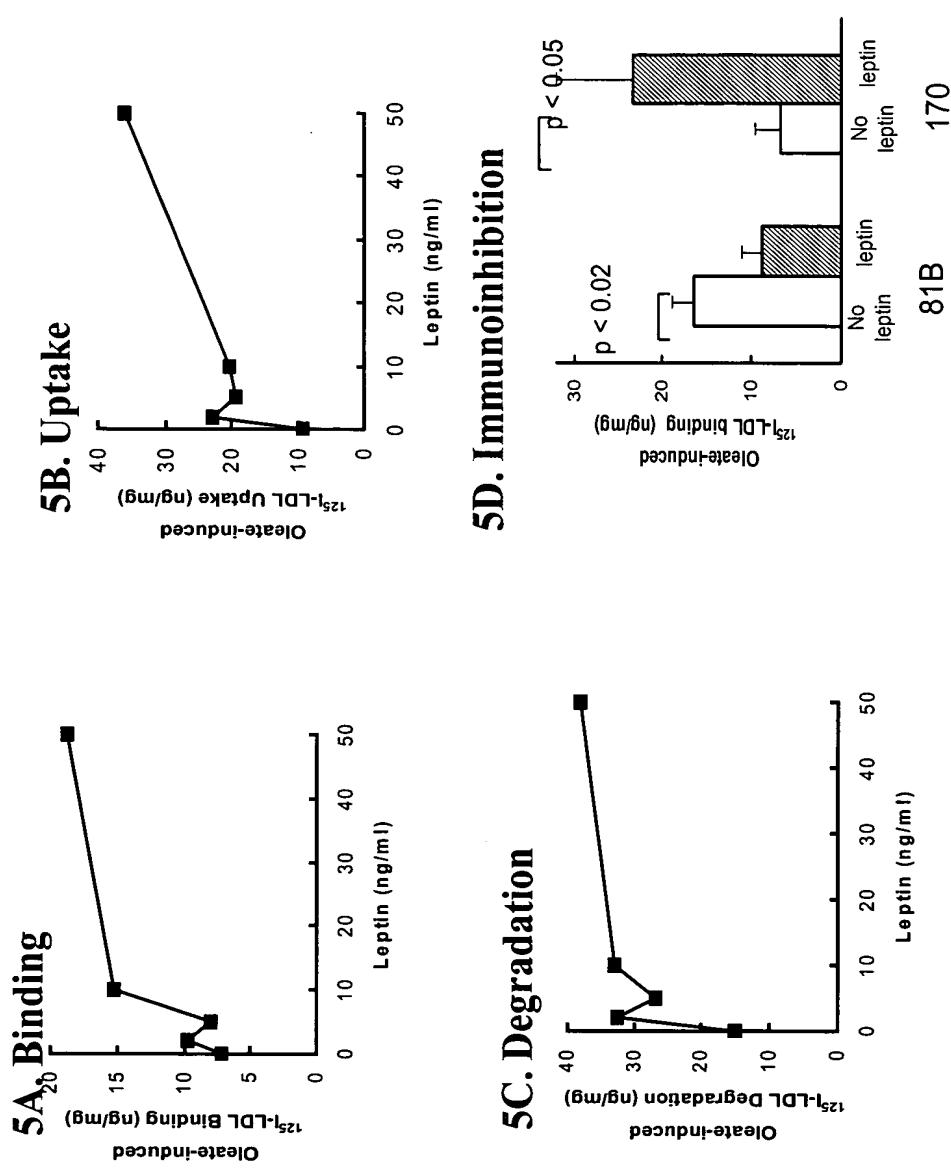
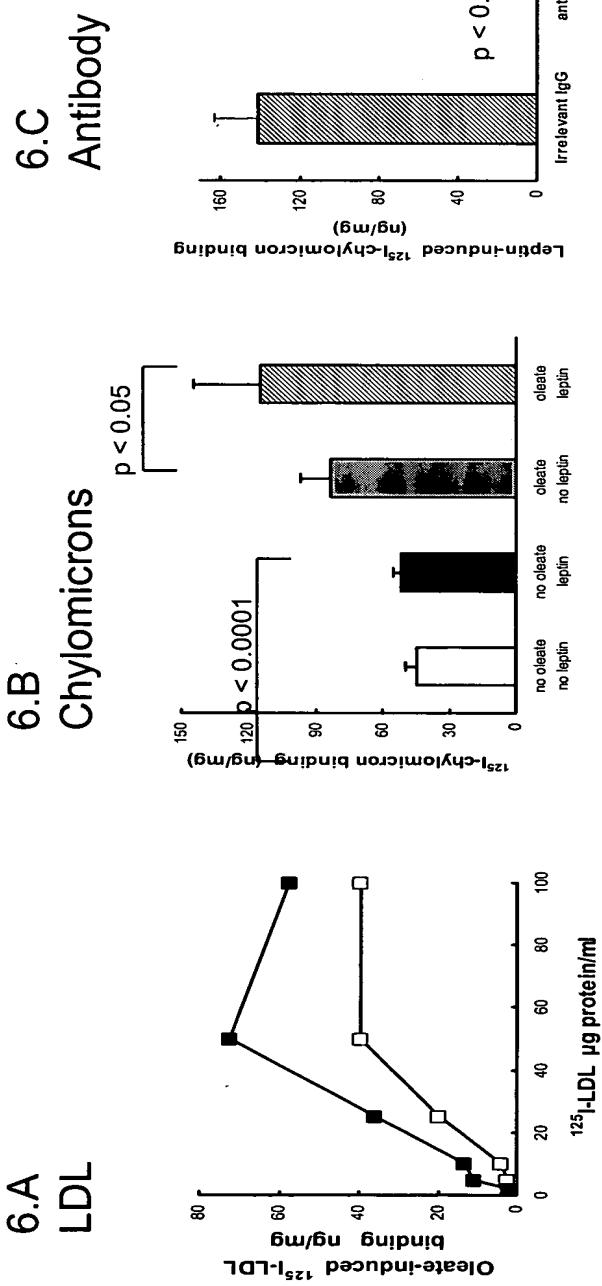


Figure 2

**Figure 3.**



**Figure 5**

**Figure 6**

7A. Rat hepatocytes

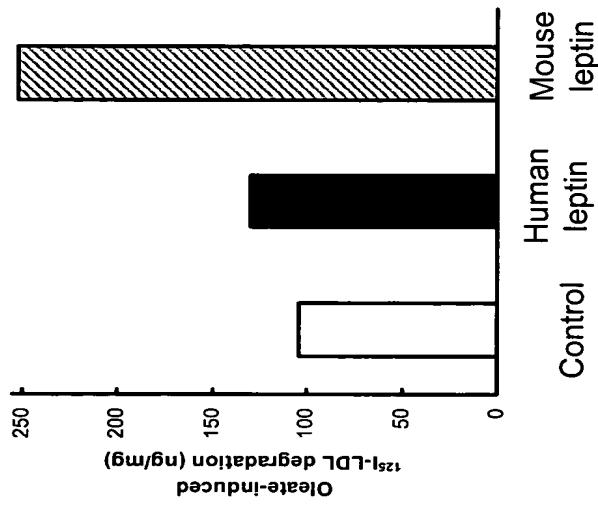
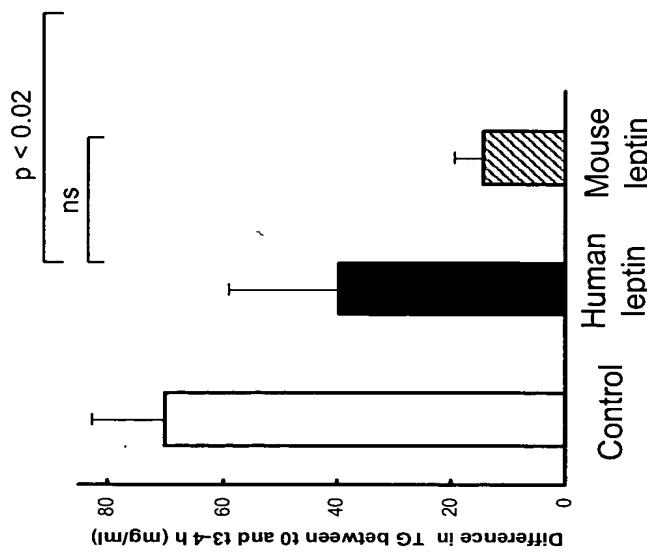
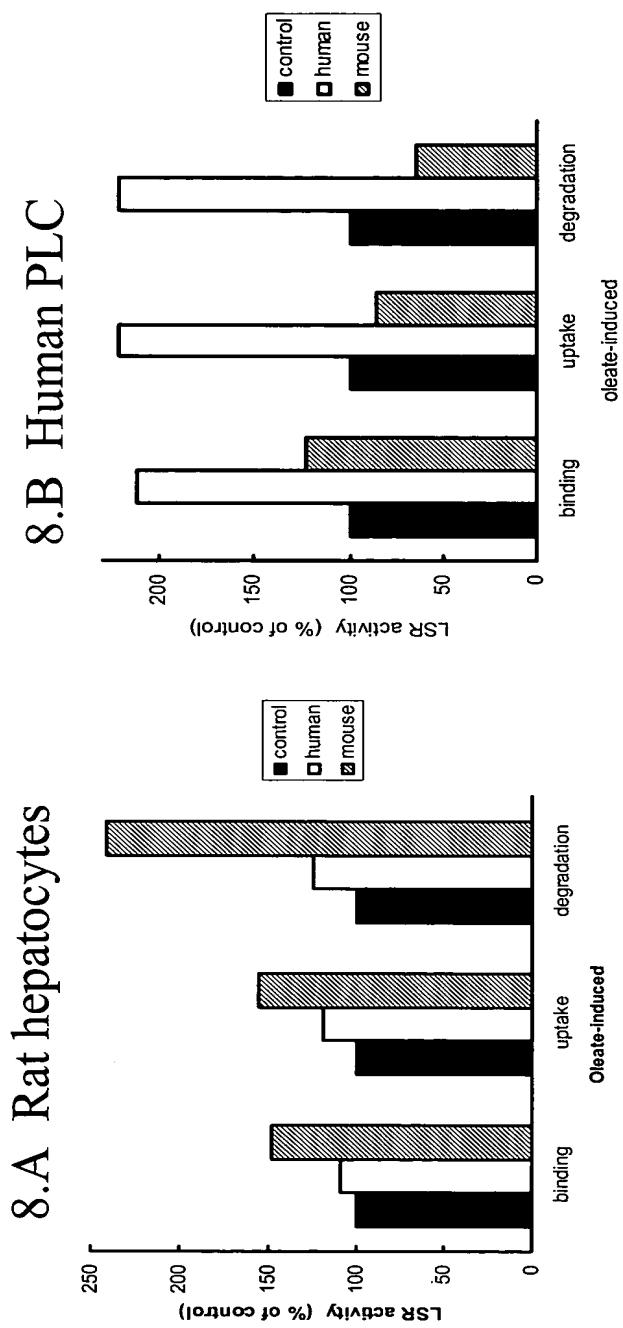
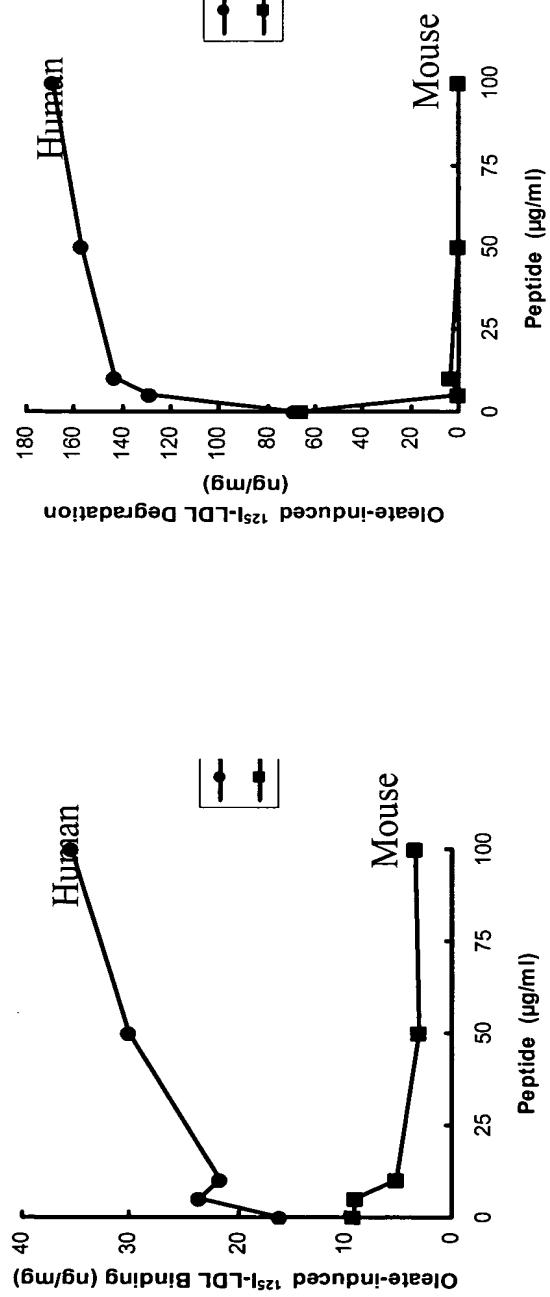
7B. *dbP^{as}/dbP^{as}* postprandial plasma TG

Figure 7

**Figure 8**

9.B Degradation



9.A Binding

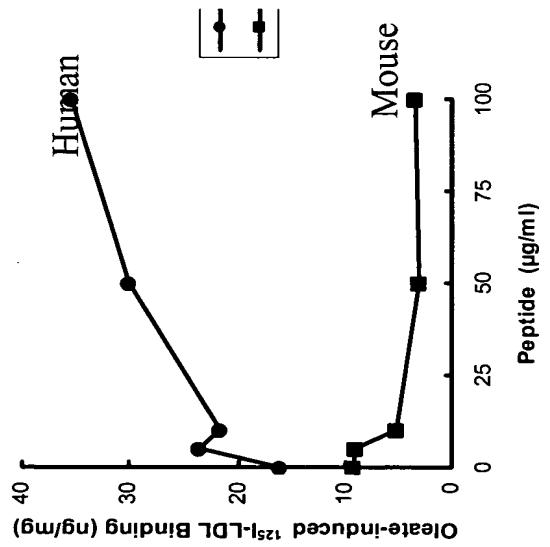
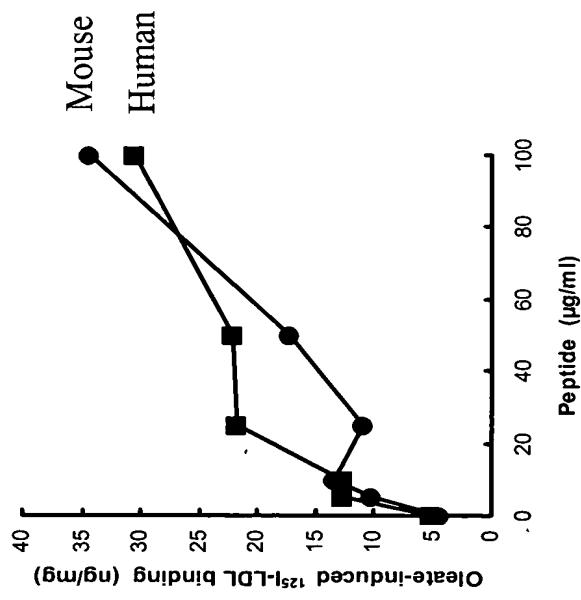
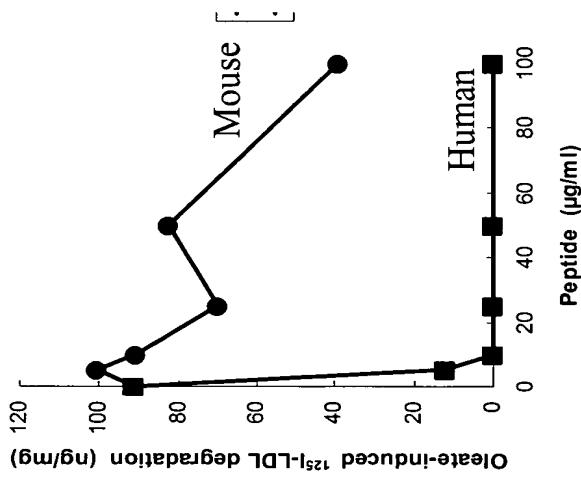


Figure 9

10.A Binding



10.B Degradation



10/54

Figure 10

Effect of mouse leptin (A) or leptin peptide (B) on postprandial plasma TG response in ob/ob mice.

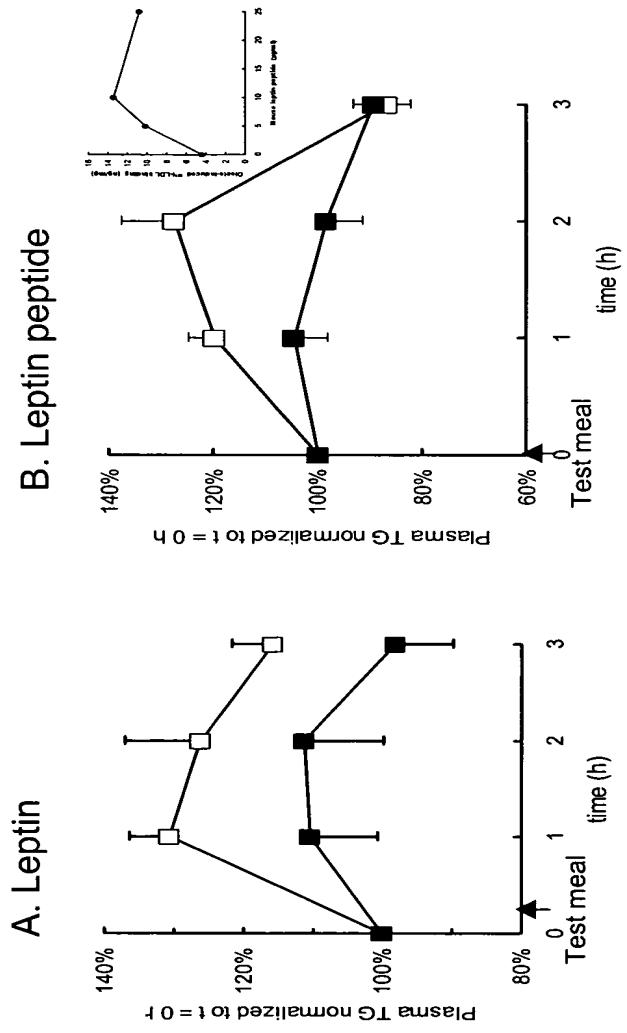


Figure 11

Effect of test meal with and without leptin injection on postheparin lipolytic activity in db^{Pas}/db^{Pas} mice

	Postheparin lipolytic activities in db^{Pas}/db^{Pas} ($\mu\text{mol FFA/ml/h}$)
No high-fat test meal	11.7 ± 2.4
High-fat test meal	19.5 ± 9.2 ns
High-fat test meal + 50 μg leptin	12.2 ± 2.7 ns

ns = not significant).

Figure 12

Figure 13

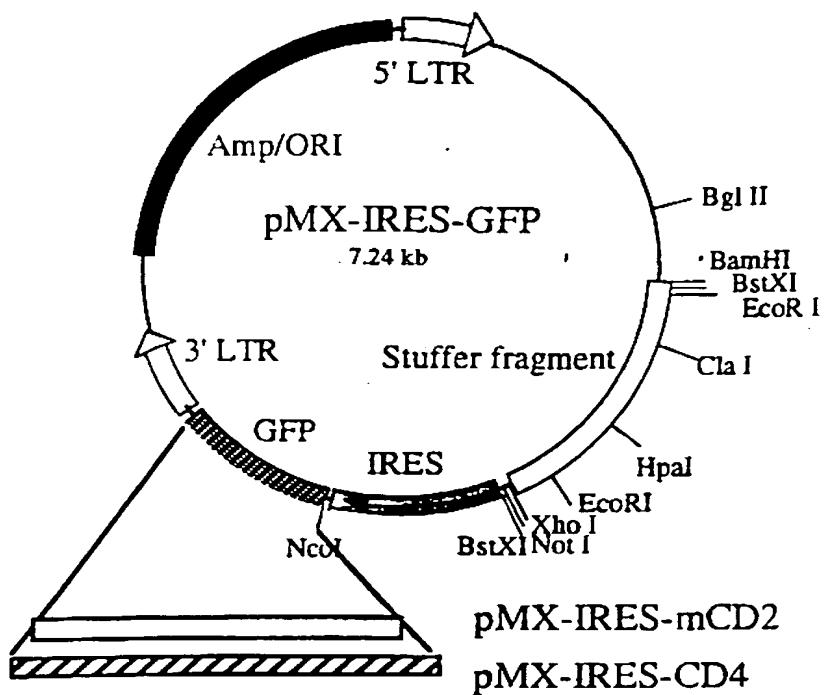


Figure 14

Plan for creation of truncated forms of LSR

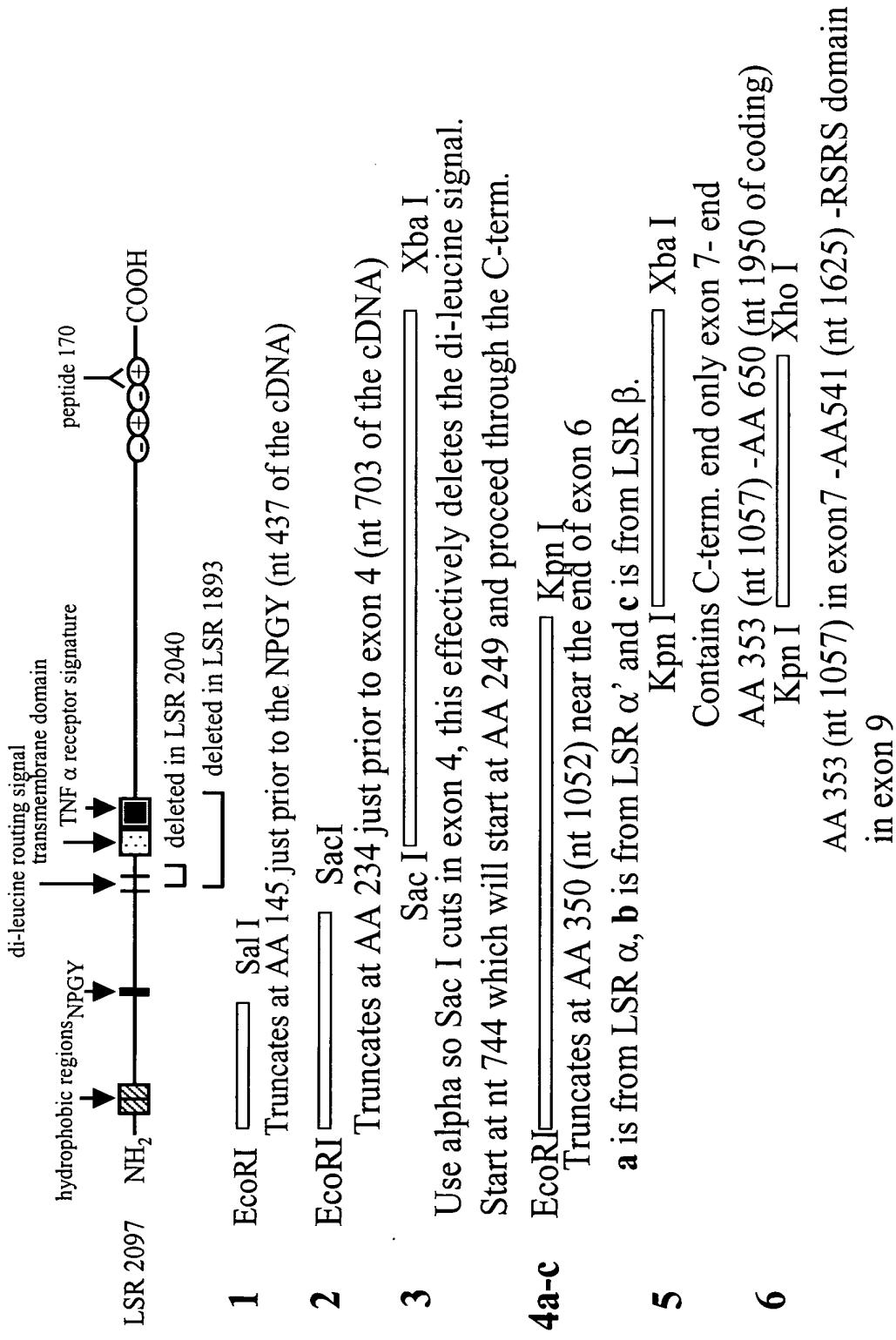


Figure 15

Figure 16

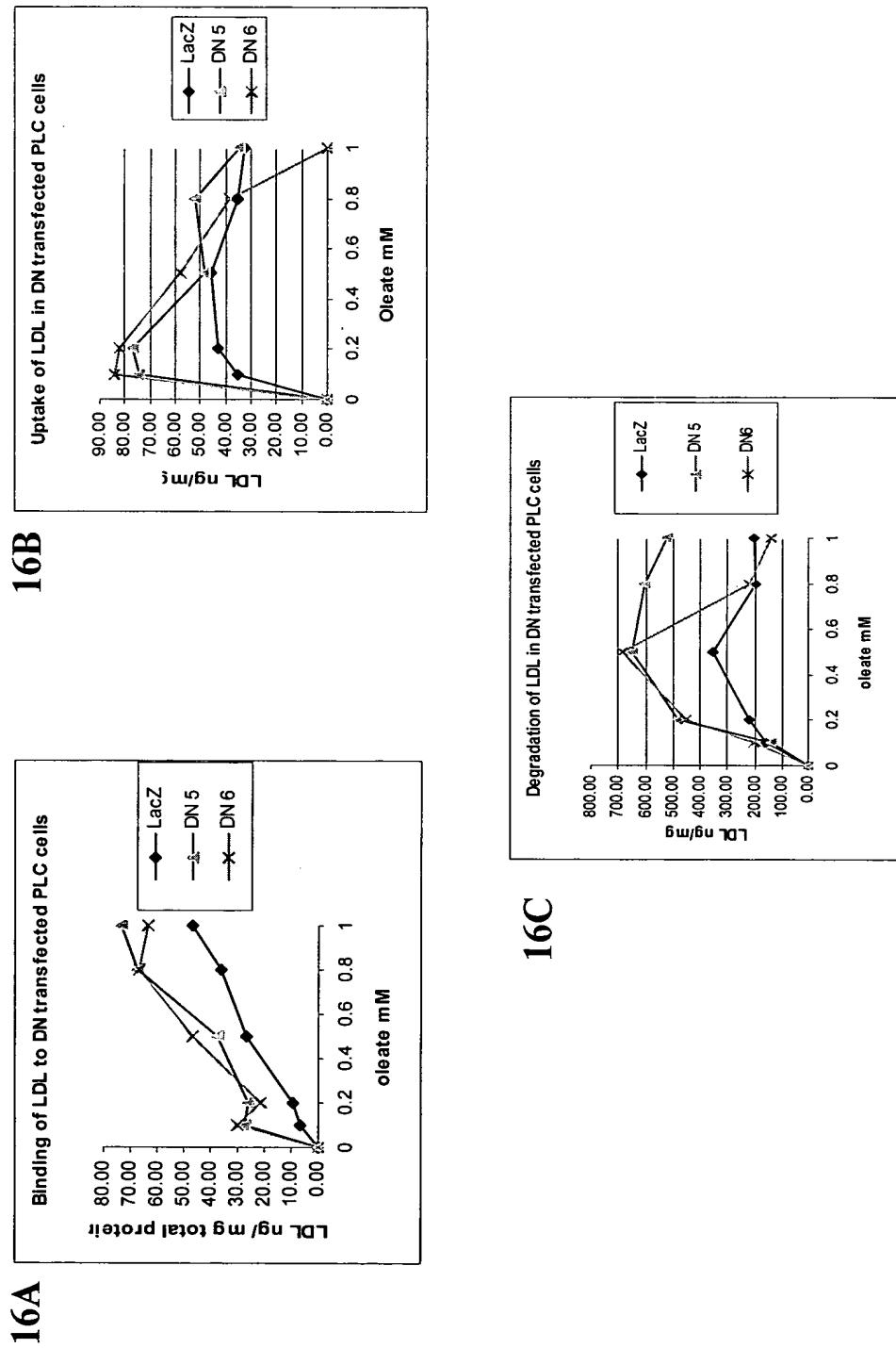
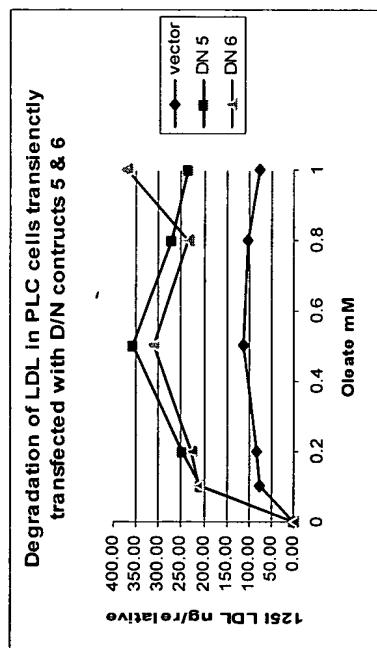
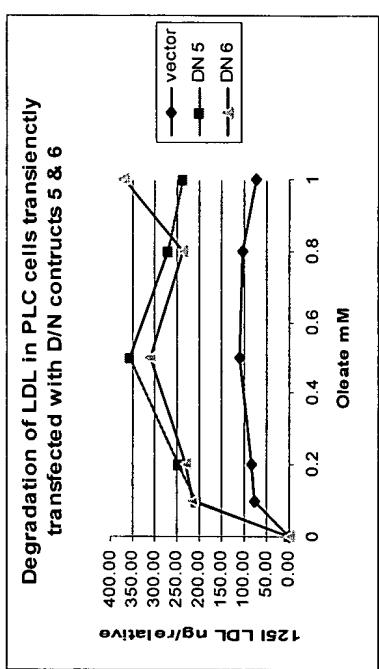


Figure 17

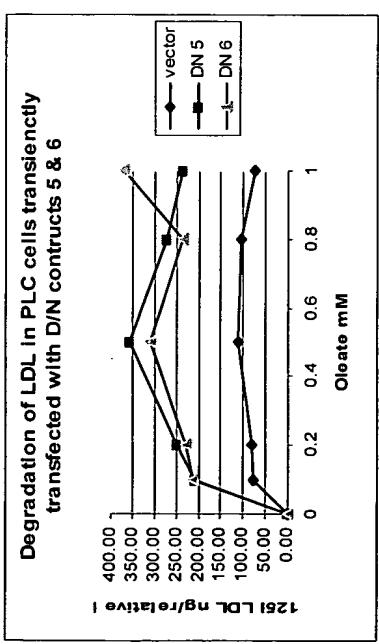
17C



17B



17A



18/54

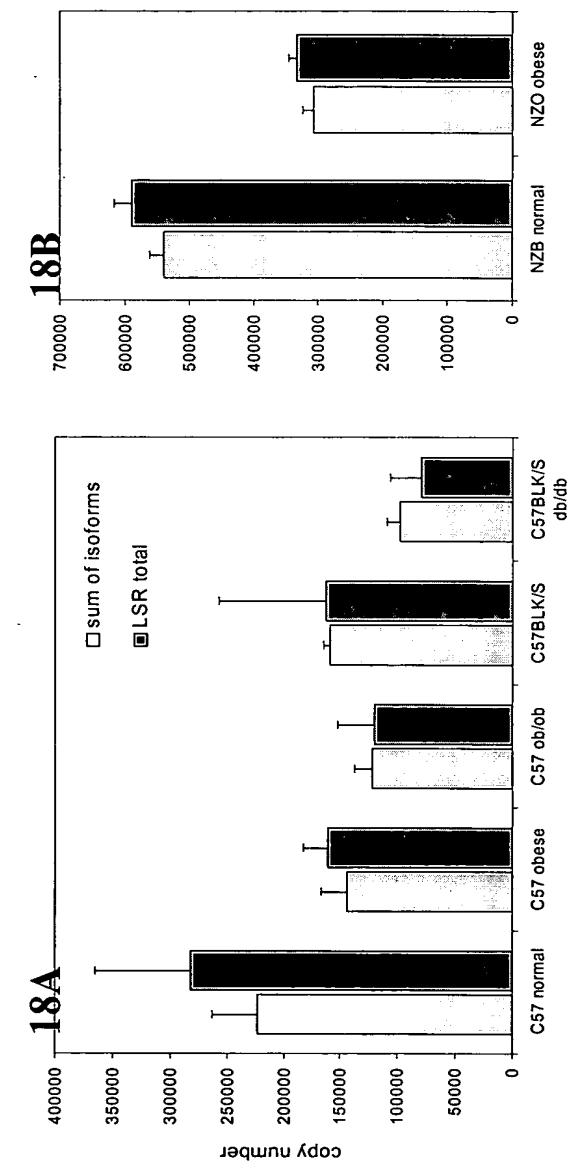


Figure 18

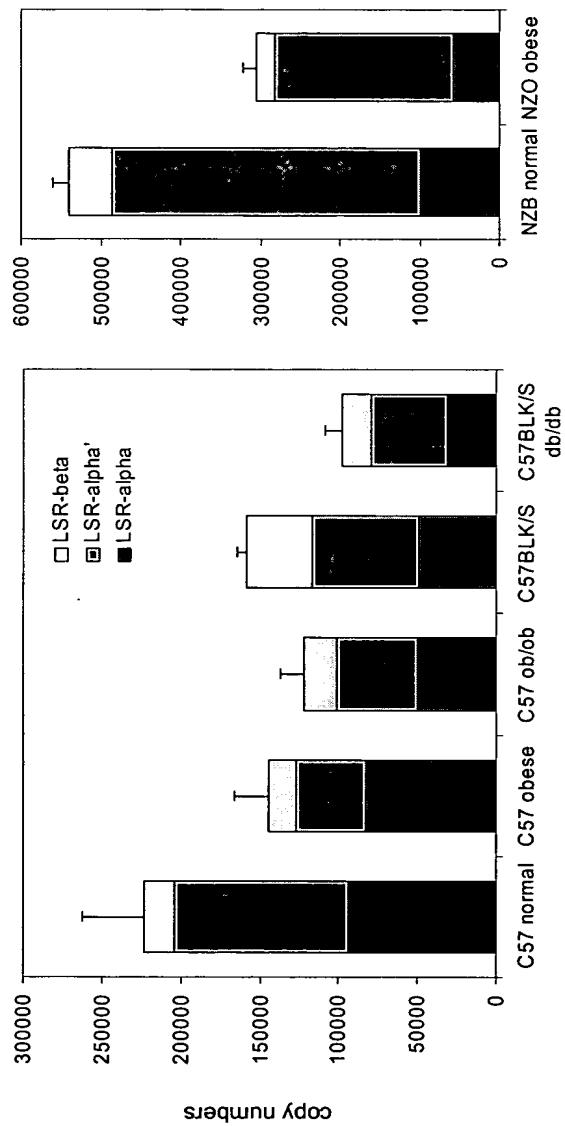
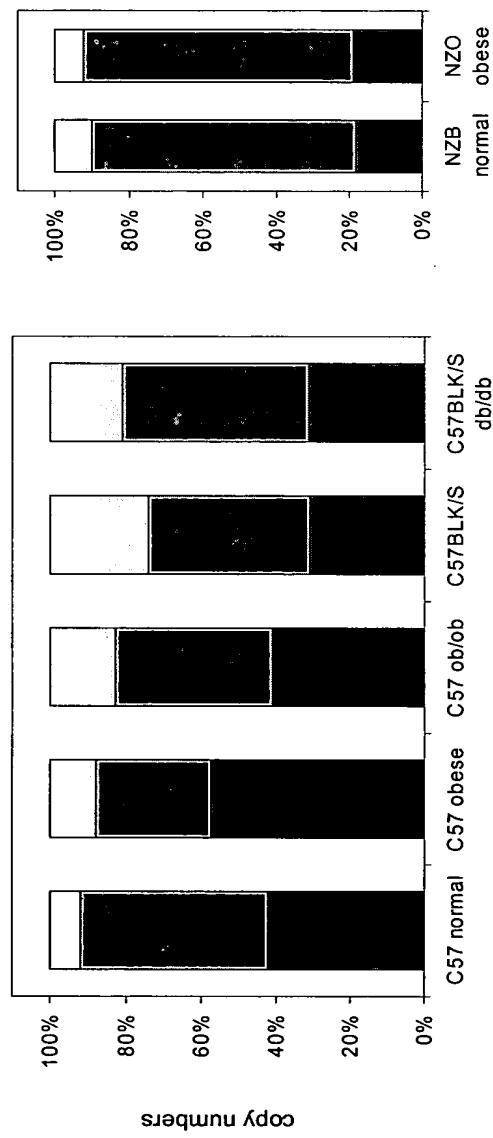


Figure 19

20A.

■ LSR-alpha □ LSR-alpha' □ LSR-beta



20B.

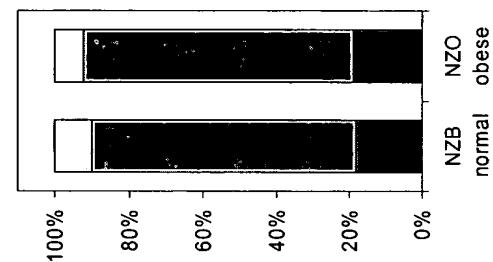
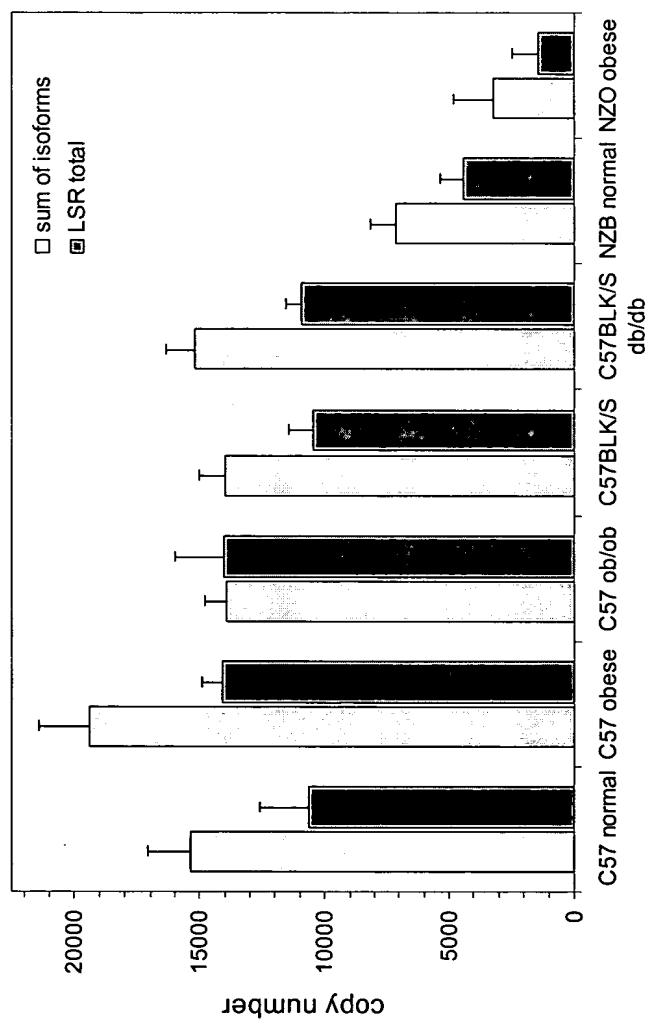


Figure 20

Figure 21



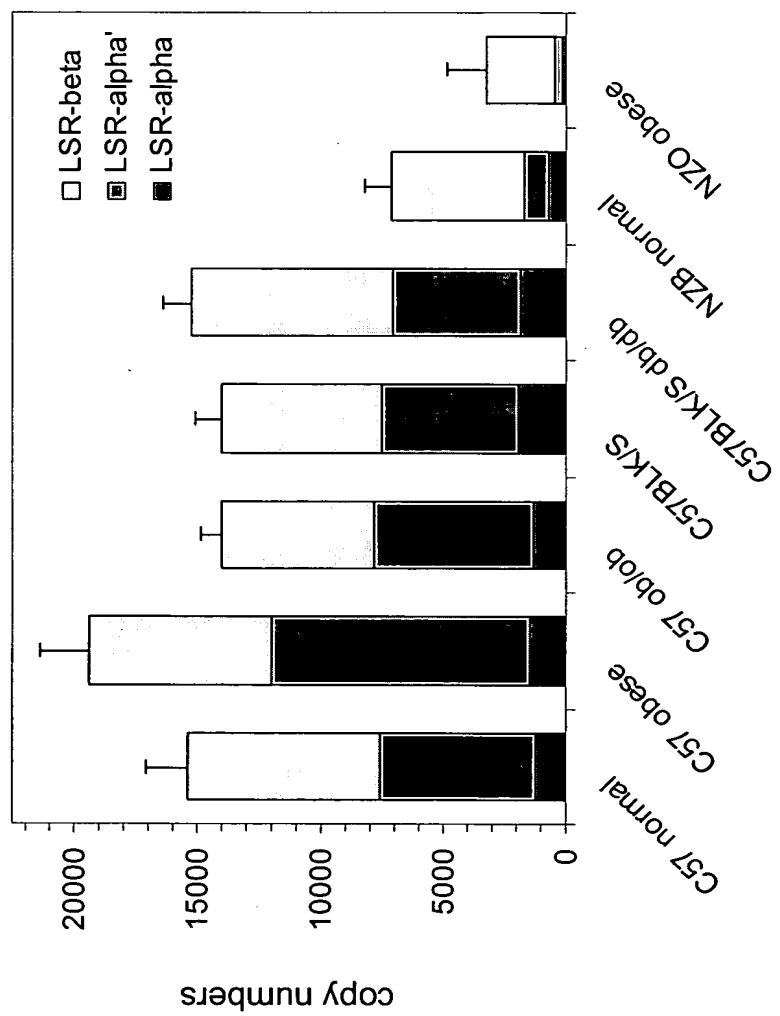


Figure 22

□ LSR-alpha' ■ LSR-alpha □ LSR-beta

NZD obese

NZB normal

C57BLKS double

C57BLKS ob/ob

C57 ob/ob

C57 normal

copy numbers

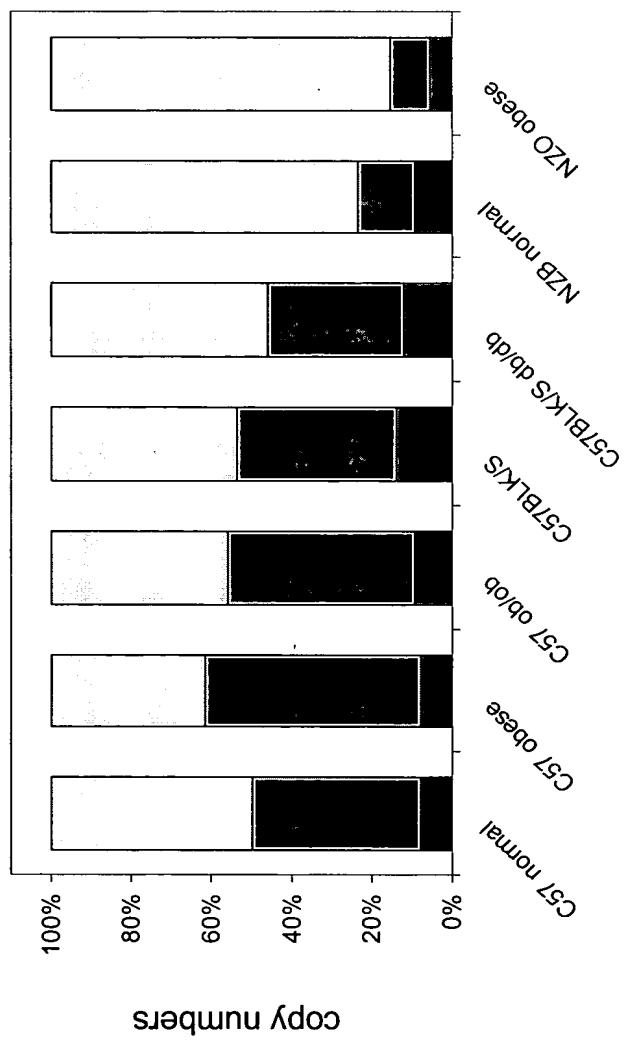
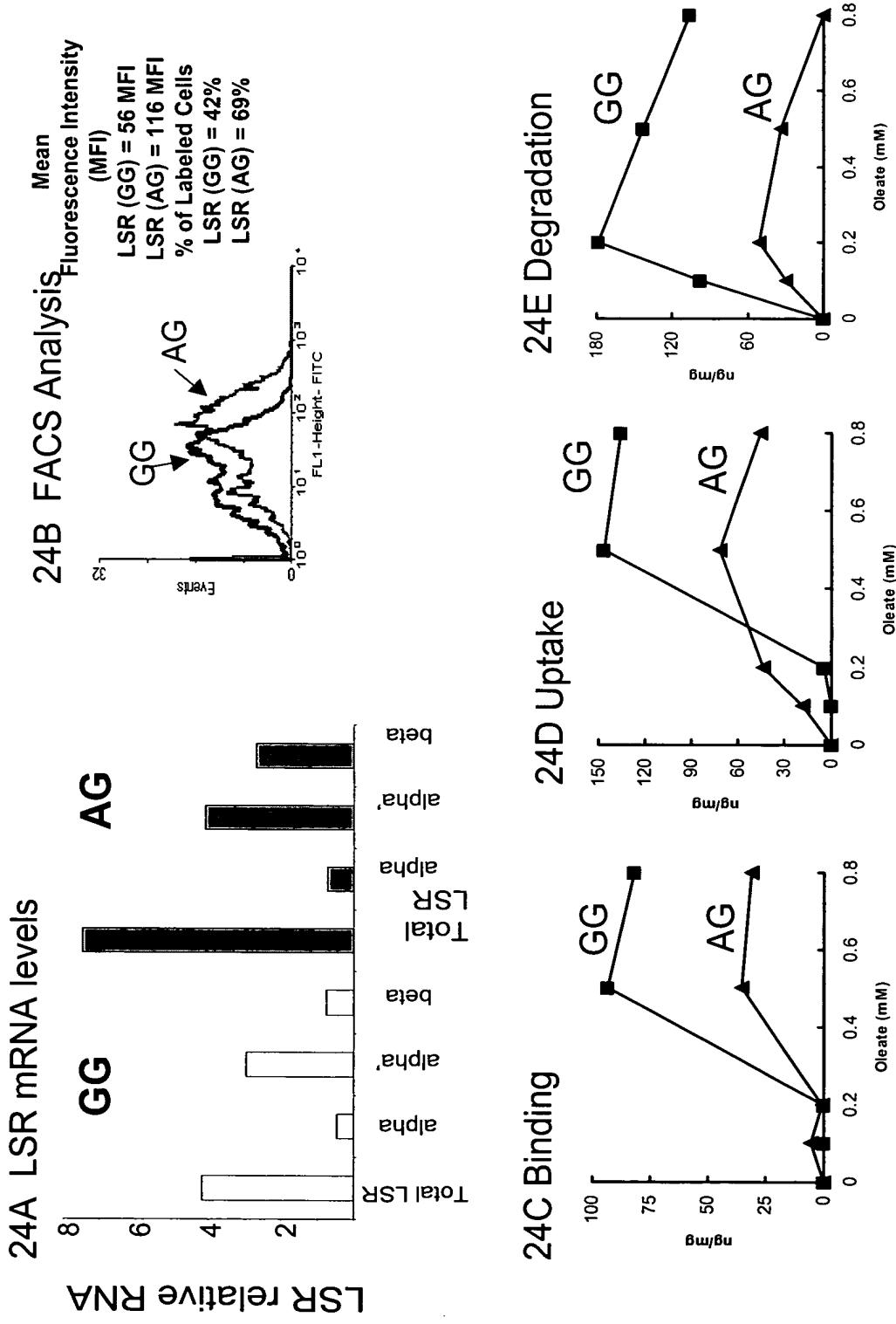


Figure 23

**Figure 24**

Table**Characteristics of recombinant ZFPs directed toward LSR sequences.**

ID#	ZFP	Fold Activation	Kd (nM)	Target Sequence
5182	2B-1A	21.5	0.10	AAGGTCTGCCtatGGTGCAGAC (SEQ ID NO:102)
5183	4A-3A	8.7	0.05	GTGGGAGGCCcgGGGGCTGGA (SEQ ID NO:103)
5185	6A-5A	8.4	0.02	TGGGGGTGGCCGGGGGG (SEQ ID NO:104)
5186	8A-7B	6.5	0.02	CCGGGAGTGcgCAGGGGGTA (SEQ ID NO:105)
5205	1A-7B	29.7	0.30	GTGGCTGCACAAGGTCCGC (SEQ ID NO:106)

Figure 25

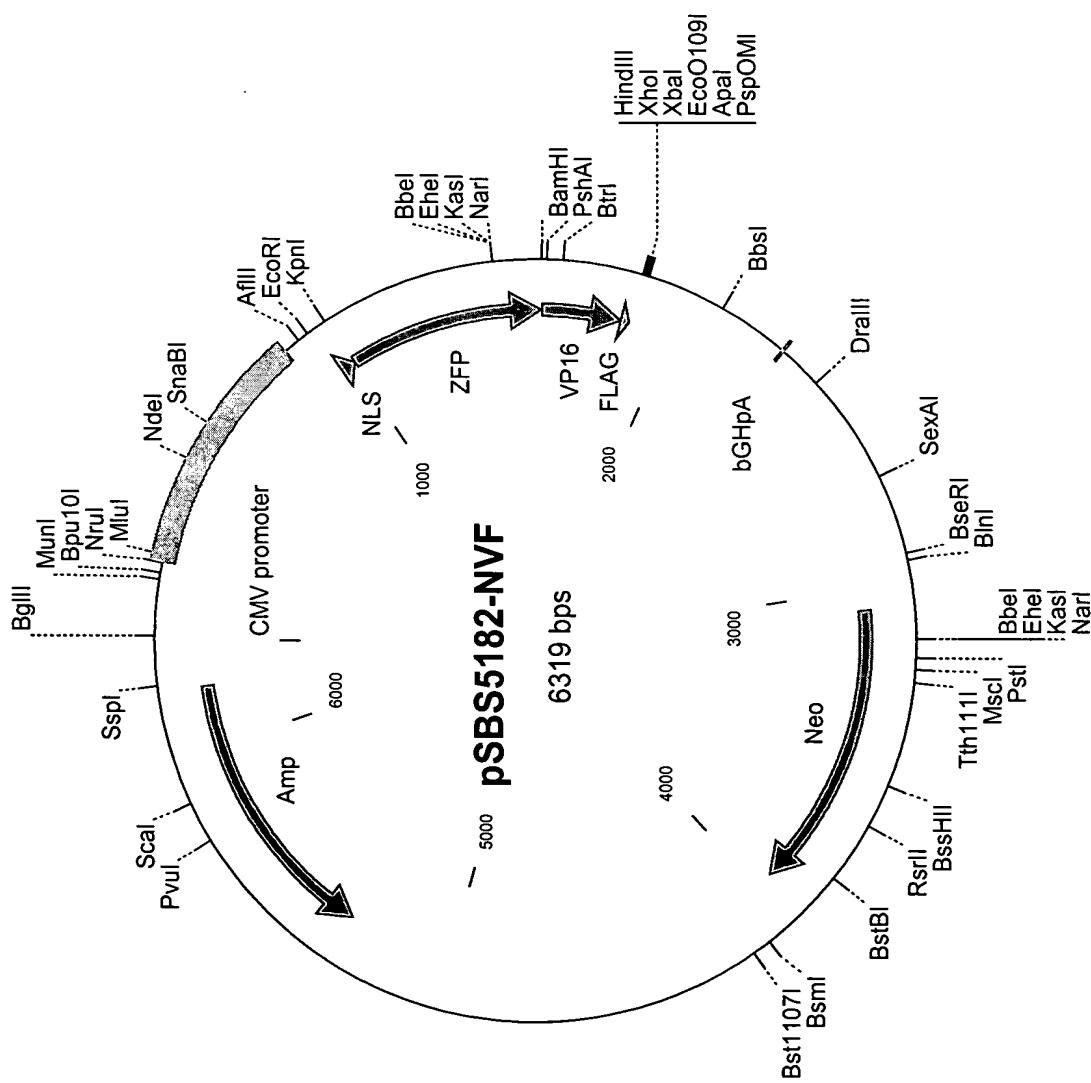


Figure 26A

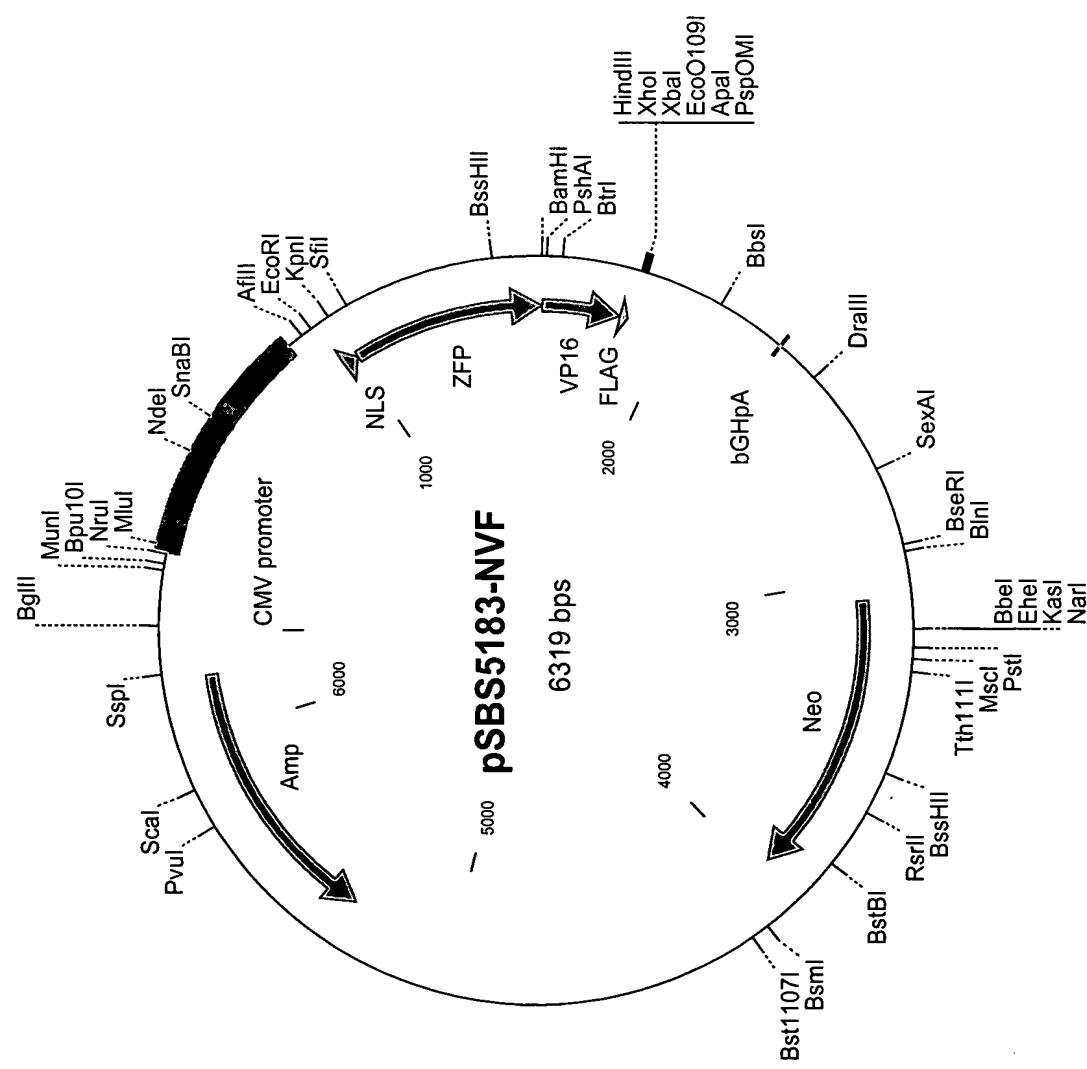


Figure 26B

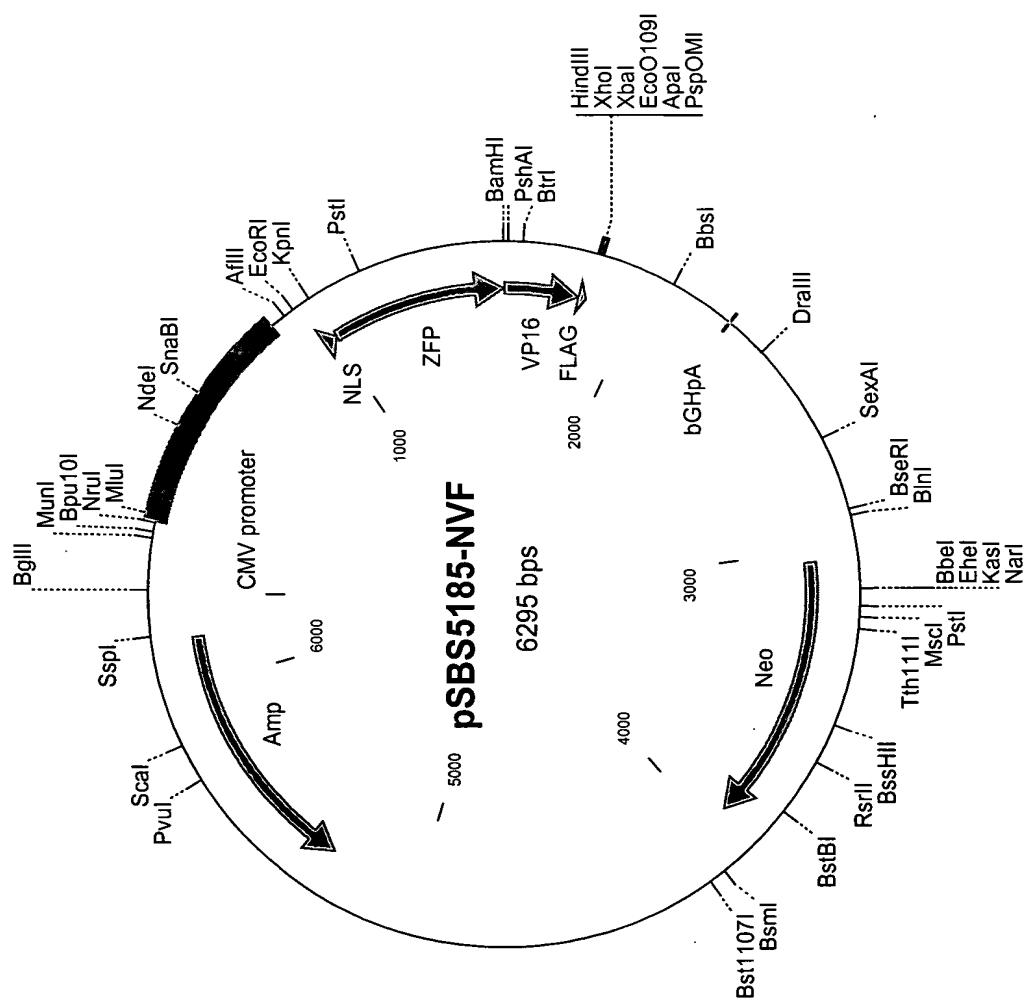


Figure 26C

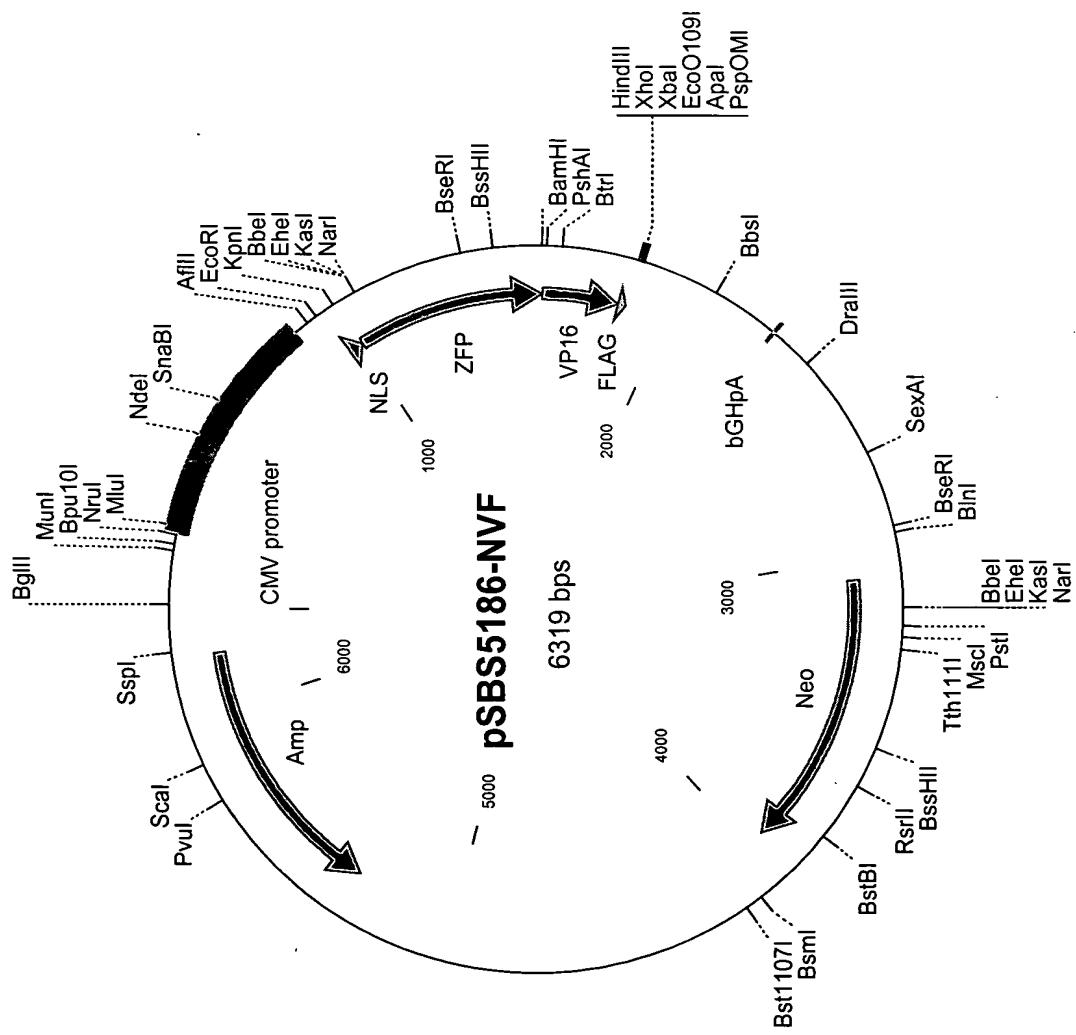


Figure 26D

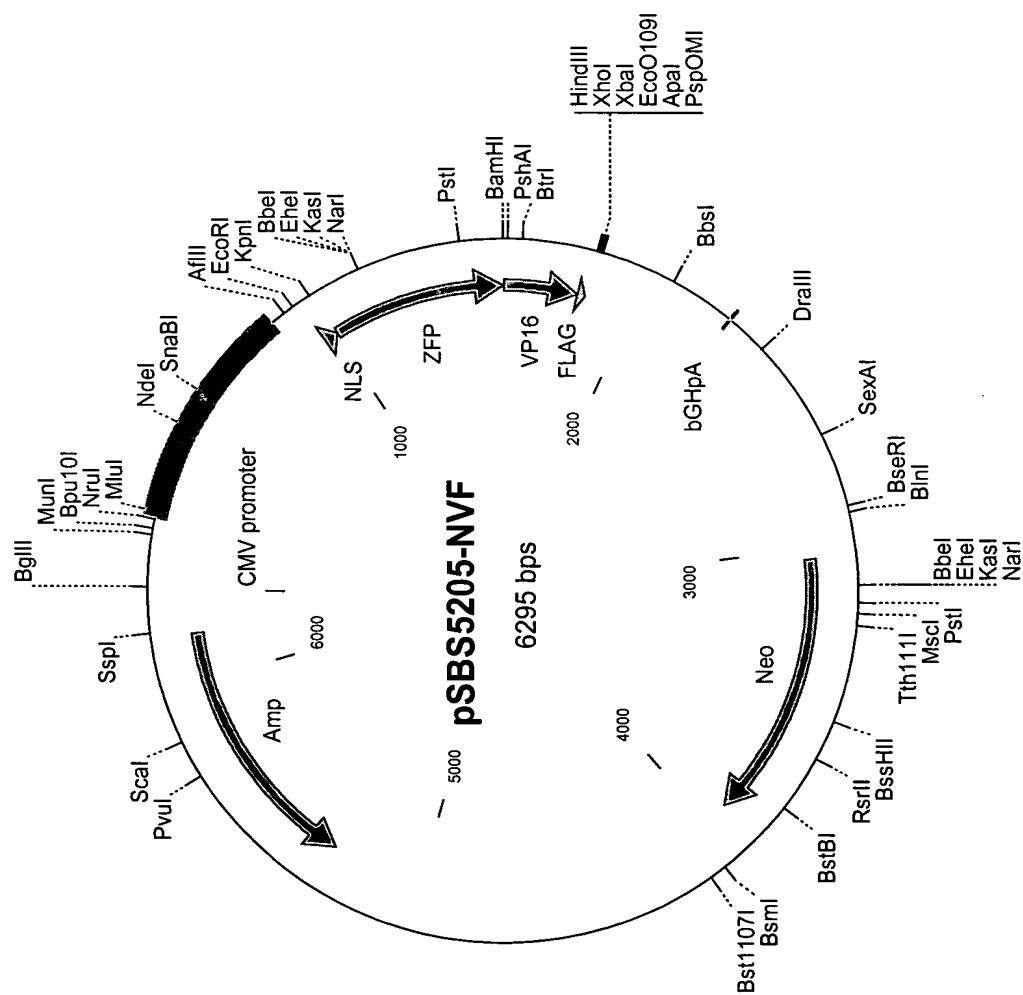


Figure 26E

LOCUS pSBS5182-N 6319 bp DNA CIRCULAR SYN
 DEFINITION Ligation of 5182 into NVF (KpnI, BamHI)
 ACCESSION pSBS5182-N
 REFERENCE 1 (bases 1 to 6319)
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 CDS 956..1003
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 /product="Nuclear Localization Signal"
 CDS 1004..1597
 /gene="ZFP"
 /product="LSR 2B-1A"
 CDS 1598..1840
 /gene="VP16"
 /product="VP16 activation domain"
 CDS 1841..1867
 /gene="FLAG"
 /product="FLAG epitope"
 CDS 3064..3947
 /gene="Neo"
 /product="neomycin resistance"
 CDS complement (5321..6181)
 /gene="Amp "
 /product="Ampcillin resistance"
 BASE COUNT 1451 a 1683 c 1651 g 1534 t
 ORIGIN

 1 GACGGATCGG GAGATCTCCC GATCCCCTAT GGTCGACTCT CAGTACAATC TGCTCTGATG
 61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTCG
 121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAACCTGC
 181 TTAGGGTTAG GCGTTTGCCTG CTGCTTCGCG ATGTACGGGC CAGATATAACG CGTTGACATT
 241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGGTC ATTAGTTCAT AGCCCATATA
 301 TGGAGTTCCG CGTTACATAA CTTACGGTAA ATGGCCGCC TGGCTGACCG CCCAACGACC
 361 CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCAATA GGGACTTTCC
 421 ATTGACGTCA ATGGGTGGAC TATTACGGT AAACGCCCCA CTTGGCAGTA CATCAAGTGT
 481 ATCATATGCC AAGTACGCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT
 541 ATGCCAGTA CATGACCTTA TGGGACTTTCT CTACTTGGCA GTACATCTAC GTATTAGTC
 601 TCGCTATTAC CATGGTGATG CGGTTTGCG AGTACATCAA TGGGCGTGGGA TAGCGGTTTG
 661 ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTG TTTTGGCACC
 721 AAAATCAACG GGACTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGCG
 781 GTAGGGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCAA
 841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC
 901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGAA TTCGCTAGCG CCACCATGGC
 961 CCCCAAGAAG AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT
 1021 CTGCCACATC CAGGGCTGTG GTAAAGTTA CGCGACCCGC TCCAACCTGA CCCGCCACCT
 1081 GCGCTGGCAC ACCGGCGAGA GGCCTTTCAT GTGTACATGG TCCTACTGTG GTAAACGCTT
 1141 CACCCAGTCC GGCACCTGA CCCGCCACAA GCGTACCCAC ACCGGTGAGA AGAAATTG
 1201 TTGTCCGGAA TGTCCGAAGC GCTTCATGAT GTCCCACAC CTGTCCCGCC ACATCAAGAC
 1261 CCACCAGAAC AAGAAGGGTG GATCTGGTGA TGGTGGCCGT CGCGGTGCCG GTTCTGGCAA
 1321 GAAGAACGAG CACATCTGCC ACATCCAGGG CTGTGGTAAA GTTACGGCG AGCGCCGCGA
 1381 CCTGACCCGC CACCTGCGCT GGCACACCGG CGAGAGGCCT TTCAATGTGTA CATGGCTCTA
 1441 CTGTGGTAAA CGCTTCACCG ACCCGGGCGC CCTGGTGCCTA CACAAGCGTA CCCACACCGG

Figure 26F

1501 TGAGAAGAAA TTTGCTTGTC CGGAATGTCC GAAGCGCTTC ATGCGCTCCG ACAACCTGAC
 1561 CCAGCACATC AAGACCCACC AGAACAAAGAA GGGTGGATCC GCCCCCCCAGA CCGATGTCAG
 1621 CCTGGGGGAC GAGCTCCACT TAGACGGCGA GGACGTGGCG ATGGCGCATG CCGACCGCCT
 1681 AGACGATTTC GATCTGGACA TGTTGGGGA CGGGGATTC CCGGGGCCGG GATTTACCCC
 1741 CCACGACTCC GCCCCCTACG GCGCTCTGGA TATGGCCGGC TTCAAGTTG AGCAGATGTT
 1801 TACCGATGCC CTTGGAATTG ACGAGTACGG TGGGGGCAGC GACTACAAGG ACGACCGATGA
 1861 CAAGTAAGCT TCTCGAGTCT AGAGGGCCCG TTTAAACCCG CTGATCAGCC TCGACTGTGC
 1921 CTTCTAGTTG CCAGGCCATCT GTTGTGGCC CCTCCCCCGT GCCTTCCTTG ACCCTGGAAG
 1981 GTGCCACTCC CACTGTCCCT TCCTAATAAA ATGAGGAAAT TGCACTCGCAT TGTCTGAGTA
 2041 GGTGTCAATT TATTCTGGGG GGTGGGGTGG GGCAGGACAG CAAGGGGGAG GATTGGAAG
 2101 ACAATAGCAG GCATGCTGGG GATGCGGTGG GCTCTATGGC TTCTGAGGCG GAAAGAACCA
 2161 GCTGGGGCTC TAGGGGGTAT CCCAACCGCGC CCTGTAGCGG CGCATTAAGC GCGGCGGGTG
 2221 TGGTGGTTAC GCGCAGCGTG ACCGCTACAC TTGCCAGCGC CCTAGCGCCC GCTCCTTCG
 2281 CTTTCTTCCC TTCCCTTCTC GCCACGTTCG CCGGCTTCC CCGTCAAGCT CTAAATCGGG
 2341 GCATCCCTT AGGGTTCAGA TTTAGTGCTT TACGGCACCT CGACCCCAA AAACATTGATT
 2401 AGGGTGTATGG TTCACGTAGT GGGCCATCGC CCTGTAGAC GGTTTTCGC CCTTTGACGT
 2461 TGGAGTCCAC GTTCTTTAAT AGTGGACTCT TGTTCACAAAC TGGAAACAACA CTCAACCCCTA
 2521 TCTCGGTCTA TTCTTTGAT TTATAAGGGG TTTTGGGGAT TTCCGGCTAT TGGTTAAAAAA
 2581 ATGAGCTGAT TTAACAAAAA TTTAACCGCA ATTAAATTCTG TGGAAATGTGT GTCAGTTAGG
 2641 GTGTGGAAAG TCCCCAGGCT CCCCAGGCAG GCAGAAGTAT GCAAGAGCATG CATCTCAATT
 2701 AGTCAGCAAC CAGGTGTGGA AAGTCCCCAG GCTCCCCAGC AGGCAGAAAGT ATGCAAAGCA
 2761 TGCATCTCAA TTAGTCAGCA ACCATAGTCC CGCCCTTAAC TCCGCCCATC CCGCCCTAA
 2821 CTCCGCCAG TTCCGCCAT TCTCCGCCCG ATGGCTGACT AATTTTTTTT ATTTATGCAG
 2881 AGGCCGAGGC CGCCTCTGCC TCTGAGCTAT TCCAGAGTA GTGAGGAGGC TTTTTGGAG
 2941 GCCTAGGCTT TTGCAAAAAG CTCCCGGGAG CTTGTATATC CATTTCGGA TCTGATCAAG
 3001 AGACAGGATG AGGATCGTT CGCATGATTG AACAAAGATGG ATTGCACGCA GGTTCTCCGG
 3061 CCGCTTGGGT GGAGAGGCTA TTGCGCTATG ACTGGGCACA ACAGACAATC GGCTGCTCTG
 3121 ATGCCGCCGT GTTCCGGCTG TCAGCGCAGG GGCGCCCGT TCTTTTGTC AAGACCGACC
 3181 TGTCCGGTGC CCTGAATGAA CTGCAGGACG AGGCAGCGC GCTATCGTGG CTGGCCACGA
 3241 CGGGCGTTCC TTGCGCAGCT GTGCTCGACG TTGTCACTGA AGCAGGAAGG GACTGGCTGC
 3301 TATTGGCGA AGTGCAGGGG CAGGATCTCC TGTCATCTCA CTTGCTCCT GCCGAGAAAG
 3361 TATCCATCAT GGCTGATGCA ATGCGGCCGC TGCAACGGCT TGATCCGGCT ACCTGCCAT
 3421 TCGACCACCA AGCGAAACAT CGCATCGAGC GAGCACGTAC TCGGATGGAA GCCGGCTTG
 3481 TCGATCAGGA TGATCTGGAC GAAGAGCATC AGGGGCTCGC GCCAGCCGAA CTGTTCGCCA
 3541 GGCTCAAGGC GCGCATGCC GACGGCGAGG ATCTCGTGT GACCCATGGC GATGCGTGT
 3601 TGCGAATAT CATGGTGGAA AATGCCGCT TTTCTGGATT CATCGACTGT GGCGGCTGG
 3661 GTGTGGCGGA CCGCTATCAG GACATAGCGT TGGCTACCCG TGATATTGCT GAAGAGCTTG
 3721 CGGGCGAATG GGCTGACCGC TTCCCTCGTC TTTACGGTAT CGCCGCTCCC GATTCCGAGC
 3781 GCATCGCCTT CTATCGCCTT CTTGACGAGT TCTTCTGAGC GGGACTCTGG GGTTCGAAAT
 3841 GACCGACCAA GCGACGCCA ACCTGCCATC ACAGAGATTC GATTCCACCG CCGCCTCTA
 3901 TGAAAGGTTG GGCTTCGGAA TCGTTTCCG GGACGCCGC TGGATGATCC TCCAGCGCG
 3961 GGATCTCATG CTGGAGTTCT TCGCCCACCC CAAACTGTTT ATTGCAGCTT ATAATGGTTA
 4021 CAAATAAACG AATAGCATCA CAAATTTCAC AAATAAGCA TTTTTTCAC TGCATTCTAG
 4081 TTGTGGTTG TCCAAACTCA TCAATGTATC TTATCATGTC TGTATACCGT CGACCTCTAG
 4141 CTAGAGCTTG GCGTAATCAT GGTCACTAGCT GTTTCCCTGTG TGAAATTGTT ATCCGCTCAC
 4201 AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGTAAA GCCTGGGGTG CCTAATGAGT
 4261 GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCGCT TTCCAGTCGG GAAACCTGTC
 4321 GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTTGC GTATTGGCG
 4381 CTCTTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GGCGAGCGGT

Figure 26G

4441 ATCAGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA
 4501 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC
 4561 GTTTTTCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG
 4621 GTGGCGAAC CCGACAGGAC TATAAAGATA CCAGGCCTT CCCCCCTGGAA GCTCCCTCGT
 4681 GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG
 4741 AAGCGTGGCG CTTTCTCAAT GCTCACGCTG TAGGTATCTC AGTCGGTGT AGGTCGTTCG
 4801 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTCAGCCC GACCGCTGCG CCTTATCCGG
 4861 TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC
 4921 TGGTAACAGG ATTAGCAGAG CGAGGTATGT AGGCCTGCT ACAGAGTTCT TGAAGTGGTG
 4981 GCCTAACTAC GGCTACACTA GAAGGACAGT ATTTGGTATC TGCCTCTGC TGAAGCCAGT
 5041 TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAA CAAACCACCG CTGGTAGCGG
 5101 TGGTTTTTTT GTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC AAGAAGATCC
 5161 TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT
 5221 GGTCATGAGA TTATCAAAAA GGATCTTCAC CTAGATCCTT TTAAATTAAA AATGAAGTTT
 5281 TAAATCAATC TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG
 5341 TGAGGCACCT ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCCGT
 5401 CGTGTAGATA ACTACGATAAC GGGAGGGCTT ACCATCTGGC CCCAGTGTG CAATGATACC
 5461 GCGAGACCCA CGCTCACCGG CTCCAGATTT ATCAGCAATA AACCAAGCCAG CCGGAAGGGC
 5521 CGAGCGCAGA AGTGGTCCTG CAACTTTATC CGCCTCCATC CAGTCTATTAA ATTGTTGCGG
 5581 GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGCCTC AACGTTGTTG CCATTGCTAC
 5641 AGGCATCGTG GTGTACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG
 5701 ATCAAGGCGA GTTACATGAT CCCCCATGTT GTGAAAAAA GCGGTTAGCT CCTTCGGTCC
 5761 TCCGATCGTT GTCAGAAGTA AGTTGGCCGC AGTGTATCA CTCATGGTTA TGGCAGCACT
 5821 GCATAATTCT CTTACTGTCA TGCCATCCGT AAGATGCTTT TCTGTACTG GTGAGTACTC
 5881 AACCAAGTCA TTCTGAGAAT AGTGTATGCG GCGACCGAGT TGCTCTTGCC CGGCCTCAAT
 5941 ACGGGATAAT ACCGCGCCAC ATAGCAGAAC TTTAAAAGTG CTCATCATTG GAAAACGTT
 6001 TTCGGGGCGA AAACTCTCAA GGATCTTACCG GCTGTTGAGA TCCAGTTCGA TGTAACCCAC
 6061 TCGTGCACCC AACTGATCTT CAGCATCTT TACTTTCAAC AGCGTTTCTG GGTGAGCAAA
 6121 AACAGGAAGG CAAAATGCCG CAAAAAAGGG AATAAGGGCG ACACGGAAAT GTTGAATACT
 6181 CATACTCTTC CTTTTCAAT ATTATTGAAG CATTATCAG GGTTATTGTC TCATGAGCGG
 6241 ATACATATTT GAATGTATT AGAAAAATAA ACAAAATAGGG GTTCCCGCGCA CATTCCCCG
 6301 AAAAGTGCCA CCTGACGTC

//

Figure 26H

LOCUS pSBS5183-N 6319 bp DNA CIRCULAR SYN
 DEFINITION Ligation of 5183 into NVF (KpnI, BamHI)
 ACCESSION pSBS5183-N
 REFERENCE 1 (bases 1 to 6319)
 FEATURES Location/Qualifiers
 CDS 956..1003
 /gene="NLS"
 /product="Nuclear Localization Signal"
 CDS 1004..1597
 /gene="ZFP"
 /product="LSR 4A-3A"
 CDS 1598..1840
 /gene="VP16"
 /product="VP16 activation domain"
 CDS 1841..1867
 /gene="FLAG"
 /product="FLAG epitope"
 CDS 3064..3947
 /gene="Neo"
 /product="neomycin resistance"
 CDS complement (5321..6181)
 /gene="Amp "
 /product="Ampcillin resistance"
 BASE COUNT 1446 a 1683 c 1655 g 1535 t
 ORIGIN

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61	CCGCATAGTT	AAGCCAGTAT	CTGCTCCCTG	CTTGTGTGTT	GGAGGTCGCT	GAGTAGTGCG
121	CGAGCAAAAT	TTAACGCTACA	ACAAGGCAAG	GCTTGACCGA	CAATTGCATG	AAGAACATCTGC
181	TTAGGGTTAG	GCGTTTGGCG	CTGCTTCGCG	ATGTACGGGC	CAGATATAACG	CGTTGACATT
241	GATTATTGAC	TAGTTATTAA	TAGTAATCAA	TTACGGGTC	ATTAGTTCAT	AGCCCATATA
301	TGGAGTTCCG	CGTTACATAA	CTTACGGTAA	ATGGCCGCC	TGGCTGACCG	CCCAACGACC
361	CCCGCCCAATT	GACGTCAATA	ATGACGTATG	TTCCCATAGT	AACGCCAATA	GGGACTTTCC
421	ATTGACGTCA	ATGGGTGGAC	TATTTACGGT	AAACTGCCA	CTTGGCAGTA	CATCAAGTGT
481	ATCATATGCC	AAGTACGCC	CCTATTGACG	TCAATGACGG	AAAATGGCCC	GCCTGGCATT
541	ATGCCCAAGTA	CATGACCTTA	TGGGACTTTC	CTACTTGGCA	GTACATCTAC	GTATTAGTCA
601	TCGCTATTAC	CATGGTGATG	CGGTTTGGC	AGTACATCAA	TGGGCGTGGGA	TAGCGGTTTG
661	ACTCACGGGG	ATTTCAGT	CTCCACCCCC	TTGACGTCAA	TGGGAGTTTG	TTTGCGCACC
721	AAAATCAACG	GGACTTTCCA	AAATGTCGTA	ACAACCTCCG	CCCATTGACG	CAAATGGCG
781	GTAGGGCTGT	ACGGTGGGAG	GTCTATATAA	GCAGAGCTCT	CTGGCTAACT	AGAGAACCCA
841	CTGCTTACTG	GCTTATCGAA	ATTAATACGA	CTCACTATAG	GGAGACCCAA	GCTGGCTAGC
901	GTTTAAACTT	AAGCTGATCC	ACTAGTCCAG	TGTGGTGAA	TTCGCTAGCG	CCACCATGGC
961	CCCCAAGAAG	AAGAGGAAGG	TGGGAATCCA	TGGGGTACCG	GGCAAGAAGA	AGCAGCACAT
1021	CTGCCACATC	CAGGGCTGTG	GTAAAGTTA	CGGCCAGTCC	GGCCACCTGG	CCCGCCACCT
1081	GCGCTGGCAC	ACCGGGGAGA	GGCCTTCAT	GTGTACATGG	TCCTACTGTG	GTAAACGCTT
1141	CACCACCTCC	GGCGAGCTGG	TGCGCCACAA	GCGTACCCAC	ACCGGTGAGA	AGAAATTGCG
1201	TTGTCCGGAA	TGTCCGAAGC	GCTTCATGCG	TTCCGACAC	CTGTCCCCTG	ACATCAAGAC
1261	CCACCAGAAC	AAGAAGGGTG	GATCTGGTGA	TGGTGGCCGT	CGCGGTGGCG	GTTCTGGCAA
1321	GAAGAACGAG	CACATCTGCC	ACATCCAGGG	CTGTGGTAAA	GTTCACGGCG	AGCGCGGCGA
1381	CCTGACCCGC	CACCTGCGCT	GGCACACCGG	CGAGAGGCCT	TTCATGTGTA	CATGGTCCTA

Figure 26I

1441 CTGTGCTAAA CGCTTCACCC AGCGCGCCCA CCTGGAGCGC CACAAGCGTA CCCACACCGG
 1501 TGAGAAGAAA TTGCTTGTGCGGAATGTCC GAAGCGCTTC ATGCGCTCCG ACGCCCTGAC
 1561 CCGCCACATC AAGACCCACC AGAACAAAGAA GGGTGGATCC GCCCCCCCAGA CCGATGTCAG
 1621 CCTGGGGGAC GAGCTCCACT TAGACGGCGA GGACGTGGCG ATGGCGCATG CCGACCGCGT
 1681 AGACGATTTC GATCTGGACA TGTTGGGGA CGGGGATTC CCGGGGCCGG GATTTACCC
 1741 CCACGACTCC GCCCCCTACG GCGCTCTGGA TATGGCCGGC TTGAGTTTG AGCAGATGTT
 1801 TACCGATGCC CTTGGAATTG ACGAGTACGG TGGGGGCAGC GACTACAAGG ACGACGATGA
 1861 CAAGTAAGCT TCTCGAGTCT AGAGGGCCCG TTAAACCCG CTGATCAGCC TCGACTGTGC
 1921 CTTCTAGTTG CCAGCCATCT GTTGTGTTGCC CCTCCCCGT GCCTTCCTTG ACCCTGGAAG
 1981 GTGCCACTCC CACTGTCCCT TCCTAATAAA ATGAGGAAAT TGCATCGCAT TGTCTGAGTA
 2041 GGTGTCAATTCTATTCTGGGGTGG GGCAGGACAG CAAGGGGAG GATTGGGAAG
 2101 ACAATAGCAG GCATGCTGGG GATGCGGTGG GCTCTATGGC TTCTGAGGCG GAAAGAACCA
 2161 GCTGGGGCTC TAGGGGTAT CCCCACGCGC CCTGTAGCGG CGCATTAAAGC GCGGCGGGTG
 2221 TGGTGGTTAC GCGCAGCGTG ACCGCTACAC TTGCCAGCGC CCTAGCGCCC GCTCCTTCG
 2281 CTTTCTTCCC TTCCCTTCTC GCCACGTTCG CGGCTTCC CGTCAGCT CTAAATCGGG
 2341 GCATCCCTT AGGGTTCAGA TTAGTGTCTT TACGGCACCT CGACCCCCAA AAACCTGATT
 2401 AGGGTGATGG TTCACGTAGT GGGCCATCGC CCTGATAGAC GGTTTTCGC CCTTGACGT
 2461 TGGAGTCCAC GTTCTTAAAT AGTGGACTCT TGTTCACAAAC TGGAAACAACA CTCAACCTA
 2521 TCTCGGTCTA TTCTTTTGAT TTATAAGGGA TTTTGGGGAT TTCCGGCTAT TGGTTAAAAA
 2581 ATGAGCTGAT TTAACAAAAA TTAAACGCGA ATTAATTCTG TGGAAATGTGT GTCAGTTAGG
 2641 GTGTGAAAG TCCCAGGCT CCCCAGGCAG GCAGAAGTAT GCAAAGCATG CATCTCAATT
 2701 AGTCAGCAAC CAGGTGTGGA AAGTCCCAG GCTCCCAGC AGGCAGAAAGT ATGCAAAGCA
 2761 TGCATCTCAA TTAGTCAGCA ACCATAGTCC CGCCCTAAAC TCCGCCATC CGCCCTAA
 2821 CTCCGCCAG TTCCGCCAT TCTCCGCCCC ATGGCTGACT AATTTTTTTT ATTTATGCAG
 2881 AGGCCGAGGC CGCCTCTGCC TCTGAGCTAT TCCAGAAGTA GTGAGGAGGC TTTTTGGAG
 2941 GCCTAGGCTT TTGCAAAAG CTCCCGGGAG CTTGTATATC CATTTCGGA TCTGATCAAG
 3001 AGACAGGATG AGGATCGTT CGCATGATTG AACAAAGATGG ATTGCACGCA GGTTCTCCGG
 3061 CCGCTTGGGT GGAGAGGCTA TTGCGCTATG ACTGGCACA ACAGACAATC GGCTGCTCTG
 3121 ATGCCGCCGT GTTCCGGCTG TCAGCGCAGG GGCGCCGGT TCTTTTGTC AAGACCGACC
 3181 TGTCCGGTGC CCTGAATGAA CTGCAGGACG AGGCAGCGC GCTATCGTGG CTGCCACGA
 3241 CGGGCGTTCC TTGCGCAGCT GTGCTCGACG TTGTCAGTGA AGCGGGAGG GACTGGCTGC
 3301 TATTGGCGA AGTGCAGGGG CAGGATCTCC TGTCTCATC CTTGCTCCT GCCGAGAAAG
 3361 TATCCATCAT GGCTGATGCA ATGCCGCCGC TGCTACGCT TGATCCGGCT ACCTGCCAT
 3421 TCGACCACCA AGCGAAACAT CGCATCGACG GAGCACGTAC TCGGATGGAA GCCGGCTTG
 3481 TCGATCAGGA TGATCTGGAC GAAGAGCATC AGGGGCTCGC GCCAGCCGAA CTGTTCGCCA
 3541 GGCTCAAGGC GCGCATGCC GACGGCGAGG ATCTCGCTGT GACCCATGGC GATGCCGTG
 3601 TGCGAATAT CATGGTGGAA AATGCCGCT TTTCTGGATT CATCGACTGT GGCGGCTGG
 3661 GTGTGGCGGA CCGCTATCAG GACATAGCGT TGGCTACCG TGATATTGCT GAAGAGCTTG
 3721 CGGGCGAATG GGCTGACCGC TTCCCTCGTC TTTACGGTAT CGCCGCTCCC GATTCCGAGC
 3781 GCATGCCCTT CTATCGCCTT CTTGACGAGT TCTTCTGAGC GGGACTCTGG GGTTGAAAT
 3841 GACCGACCAA GCGACGCCA ACCTGCCATC ACAGAGATTC GATTCCACCG CCGCCTCTA
 3901 TGAAAGGTTG GGCTTCGGAA TCGTTTCCG GGACGCCGGC TGGATGATCC TCCAGCGCG
 3961 GGATCTCATG CTGGAGTTCT TCGCCCACCC CAAACTGTTT ATTGCAGCTT ATAATGGTTA
 4021 CAAATAAACG AATAGCATCA CAAATTTCAC AAATAAACG AATTTTTTCAC TGCATTCTAG
 4081 TTGTGGTTG TCCAAACTCA TCAATGTATC TTATCATGTC TGTATACCGT CGACCTCTAG
 4141 CTAGAGCTTG GCGTAATCAT GGTCTAGCT GTTCCCTGTG TGAAATTGTT ATCCGCTCAC
 4201 AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGTAAA GCCTGGGTG CCTAATGAGT
 4261 GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCGCT TTCCAGTCGG GAAACCTGTC
 4321 GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTGCG GTATTGGCG
 4381 CTCTTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGTC GTTCGGCTGC GGCGAGCGGT
 4441 ATCAGCTCAC TCAAAGGCCGG TAATACGGTT ATCCACAGAA TCAGGGATA ACGCAGGAAA

Figure 26J

4501 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC
 4561 GTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG
 4621 GTGGCGAAC CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCCCTGGAA GCTCCCTCGT
 4681 GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG
 4741 AAGCGTGGCG CTTTCTCAAT GCTCACGCTG TAGGTATCTC AGTTCGGTGT AGGTGCGTCG
 4801 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG CCTTATCCGG
 4861 TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC
 4921 TGGTAACAGG ATTAGCAGAG CGAGGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG
 4981 GCCTAACTAC GGCTACACTA GAAGGACAGT ATTTGGTATC TGCGCTCTGC TGAAGCCAGT
 5041 TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG
 5101 TGGTTTTTTT GTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC AAGAAGATCC
 5161 TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT
 5221 GGTCATGAGA TTATCAAAAA GGATCTTCAC CTAGATCCTT TTAAATTAAA AATGAAGTTT
 5281 TAAATCAATC TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG
 5341 TGAGGCACCT ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCCGT
 5401 CGTGTAGATA ACTACGATAAC GGGAGGGCTT ACCATCTGGC CCCAGTGTG CAATGATAAC
 5461 GCGAGACCCA CGCTCACCGG CTCCAGATTT ATCAGCAATA AACCAAGCCAG CCGGAAGGGC
 5521 CGAGCGCAGA AGTGGTCCTG CAACTTTATC CGCCTCCATC CAGTCTATTAA ATTGTTGCCG
 5581 GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGCAC AACGTTGTTG CCATTGCTAC
 5641 AGGCATCGTG GTGTACCGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG
 5701 ATCAAGGCAGA GTTACATGAT CCCCCATGTT GTGAAAAAA GCGGTTAGCT CCTTCCGGTCC
 5761 TCCGATCGTT GTCAGAAGTA AGTTGGCCGC AGTGTATCA CTCATGGTTA TGGCAGCACT
 5821 GCATAATTCT CTTACTGTCA TGCCATCCGT AAGATGCTTT TCTGTGACTG GTGAGTACTC
 5881 AACCAAGTCA TTCTGAGAAT AGTGTATGCG GCGACCGAGT TGCTCTTGCC CGGCGTCAAT
 5941 ACGGGATAAT ACCGCGCCAC ATAGCAGAAC TTTAAAAGTG CTCATCATTG GAAAACGTT
 6001 TTGGGGCGA AAACTCTCAA GGATCTTACC GCTGTTGAGA TCCAGTTCGA TGTAACCCAC
 6061 TCGTGCACCC AACTGATCTT CAGCATCTTT TACTTTCACC AGCGTTTCTG GGTGAGCAAA
 6121 AACAGGAAGG CAAAATGCCG CAAAAAAGGG AATAAGGGCG ACACGGAAAT GTTGAATACT
 6181 CATACTCTTC CTTTTTCAAT ATTATTGAAG CATTATCAG GGTTATTGTC TCATGAGCGG
 6241 ATACATATTT GAATGTATT AGAAAAATAA ACAAAATAGGG GTTCCGCGCA CATTCCCCG
 6301 AAAAGTGCCA CCTGACGTC

Figure 26K

LOCUS pSBS5185-N 6295 bp DNA CIRCULAR SYN
 DEFINITION Ligation of 5185 into NVF (KpnI, BamHI)
 ACCESSION pSBS5185-N
 REFERENCE 1 (bases 1 to 6295)
 FEATURES Location/Qualifiers
 CDS 956..1003
 /gene="NLS"
 /product="Nuclear Localization Signal"
 CDS 1004..1573
 /gene="ZFP"
 /product="LSR 6A-5A"
 CDS 1574..1816
 /gene="VP16"
 /product="VP16 activation domain"
 CDS 1817..1843
 /gene="FLAG"
 /product="FLAG epitope"
 CDS 3040..3923
 /gene="Neo"
 /product="neomycin resistance"
 CDS complement (5297..6157)
 /gene="Amp "
 /product="Ampicillin resistance"
 BASE COUNT 1452 a 1682 c 1635 g 1526 t
 ORIGIN

 1 GACGGATCGG GAGATCTCCC GATCCCCTAT GGTCGACTCT CAGTACAATC TGCTCTGATG
 61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTCG
 121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAATCTGC
 181 TTAGGGTTAG GCGTTTGGG CTGCTTCGCG ATGTACGGGC CAGATATACT CGTTGACATT
 241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGTC ATTAGTTCAT AGCCCATATA
 301 TGGAGTTCCG CGTTACATAA CTTACGGTAA ATGGCCGCC TGGCTGACCG CCCAACGACC
 361 CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC
 421 ATTGACGTCA ATGGGTGGAC TATTACGGT AAACTGCCA CTTGGCAGTA CATCAAGTGT
 481 ATCATATGCC AAGTACGCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT
 541 ATGCCAGTA CATGACCTTA TGGGACTTTCTA CTACTTGGA GTACATCTAC GTATTAGTCA
 601 TCGCTATTAC CATGGTGATG CGGTTTGGC AGTACATCAA TGGGCGTGGGA TAGCGGTTTG
 661 ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC
 721 AAAATCAACG GGACTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGCG
 781 GTAGGGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCCA
 841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC
 901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGAA TTGCGCTAGCG CCACCATGGC
 961 CCCCAAGAAC AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT
 1021 CTGCCACATC CAGGGCTGTG GTAAAGTTA CGGCGCTCC GACCACTGG CCCGCCACCT
 1081 GCGCTGGCAC ACCGGCGAGA GGCCTTTCAT GTGTACATGG TCCTACTGTG GTAAACGCTT
 1141 CACCCGCTCC GACGAGCTGC AGC GCCACAA GCGTACCCAC ACCGGTGAGA AGAAATTGCG
 1201 TTGTCCGGAA TGTCCGAAGC GCTTCATGCG CTCCGACGAG CGCAAGCGCC ACATCAAGAC
 1261 CCACCAAGAAC AAGAAGGGTG GATCTGGTGA TGGCAAGAAC AAGCAGCACA TCTGCCACAT
 1321 CCAGGGCTGT GGTAAAGTTT ACGGCGCTC CGACCACCTG ACCACCCACC TGCGCTGGCA
 1381 CACCGGCGAG AGGCCTTCA TGTGTACATG GTCCTACTGT GGTAAACGCT TCACCGCTC

Figure 26L

1441 CGACCACCTG ACCCGCCACA AGCGTACCCA CACCGGTGAG AAGAAATTG CTTGTCCGGA
 1501 ATGTCCGAAG CGCTTCATGC GCTCCGACCA CCTGACCACC CACATCAAGA CCCACCAAGAA
 1561 CAAGAAGGGT GGATCCGCC CCCCCGACCGA TGTCAGCCTG GGGGACGAGC TCCACTTAGA
 1621 CGGCGAGGAC GTGGCGATGG CGCATGCCGA CGCGCTAGAC GATTCGATC TGGACATGTT
 1681 GGGGGACCGG GATTCCCCGG GGCGGGGATT TACCCCCCAC GACTCCGCC CCTACGGCGC
 1741 TCTGGATATG GCCGGCTTCG AGTTTGAGCA GATGTTTACG GATGCCCTG GAATTGACGA
 1801 GTACGGTGGG GGCAGCGACT ACAAGGACGA CGATGACAAG TAAGCTTCTC GAGTCTAGAG
 1861 GGCCTGTTA AACCCGCTGA TCAGCCTCGA CTGTGCCCTC TAGTTGCCAG CCATCTGTTG
 1921 TTTGCCCTC CCCCCTGCCT TCCTTGACCC TCCAAGGTGC CACTCCACT GTCCTTCC
 1981 AATAAAATGA GGAAATTGCA TCGCATTGTC TGAGTAGGTG TCATTCTATT CTGGGGGGTG
 2041 GGGTGGGGCA GGACAGCAAG GGGGAGGATT GGGAAAGACAA TAGCAGGCAT GCTGGGGATG
 2101 CGGTGGGCTC TATGGCTTCT GAGGGGGAAA GAACCAGCTG GGGCTCTAGG GGGTATCCCC
 2161 ACGGCCCTG TAGCGGCCGA TTAAGCGCGG CGGGTGTGGT GGTACGCGC AGCGTACCG
 2221 CTACACTTGC CAGCGCCCTA GCGCCCGCTC CTTTCGCTTT CTTCCCTTCC TTTCTCGCCA
 2281 CGTTGCCCGG CTTTCCCCGT CAAGCTCTAA ATCGGGGCAT CCCTTTAGGG TTCCGATTAA
 2341 GTGCTTACG GCACCTCGAC CCCAAAAAAC TTGATTAGGG TGATGGTTCA CGTAGTGGC
 2401 CATGCCCTG ATAGACGGTT TTTGCCCTT TGACGTTGGA GTCCACGTTT TTTAATAGTG
 2461 GACTCTGTT CCAAACCTGGA ACAACACTCA ACCCTATCTC GGTCTATTCT TTTGATTTAT
 2521 AAGGGATTTT GGGGATTTCG GCCTATTGGT TAAAAAAATGA GCTGATTAA CAAAAAATTAA
 2581 ACGCGAATTA ATTCTGTGGA ATGTGTGTCA GTAGGGTGT GGAAAGTCCC CAGGCTCCCC
 2641 AGGCAGGCAG AAGTATGCAA AGCATGCATC TCAATTAGTC AGCAACCCAGG TGTGGAAAGT
 2701 CCCCAGGCTC CCCAGCAGGC AGAAGTATGC AAAGCATGCA TCTCAATTAG TCAGCAACCA
 2761 TAGTCCCGCC CCTAACTCCG CCCATCCCAG CCCTAACTCC GCCCAGTTCC GCCCATTCTC
 2821 CGCCCCATGG CTGACTAATT TTTTTTATTT ATGCAGAGGC CGAGGCCGCC TCTGCCCTG
 2881 AGCTATTCCA GAAGTAGTGA GGAGGCTTTT TTGGAGGCT AGGCTTTTGC AAAAAGCTCC
 2941 CGGGAGCTTG TATATCCATT TTCGGATCTG ATCAAGAGAC AGGATGAGGA TCGTTTCGCA
 3001 TGATTGAACA AGATGGATTG CACGCAAGGGT CTCCGGCCGC TTGGGGGGAG AGGCTATTG
 3061 GCTATGACTG GGCACAACAG ACAATCGGCT GCTCTGATGC CGCCGTGTT CGGCTGTCAG
 3121 CGCAGGGGCG CCCGGTTCTT TTTGTCAAGA CCGACCTGTC CGGTGCCCTG AATGAACTGC
 3181 AGGACGAGGC AGCGCGGCTA TCGTGGCTGG CCACGACGGG CGTTCTTGC GCAGCTGTG
 3241 TCGACGTTGT CACTGAAGGC GGAAGGGACT GGCTGCTATT GGGCGAAGTG CGGGGGCAGG
 3301 ATCTCCTGTC ATCTCACCTT GCTCTGCCG AGAAAGTATC CATCATGGCT GATGCAATGC
 3361 GGCAGCTGCA TACGCTTGAT CCGGCTACCT GCCCATTGCA CCACCAAGCG AAACATCGCA
 3421 TCGAGCGAGC ACGTACTCGG ATGGAAGCCG GTCTTGTCA TCAGGATGAT CTGGACGAAG
 3481 AGCATCAGGG GCTCGCGCCA GCCGAACGTG TCGCCAGGCT CAAGGCGCGC ATGCCCCACG
 3541 GCGAGGATCT CGTCGTGACC CATGGCGATG CCTGCTTGCC GAATATCATG GTGGAAAATG
 3601 GCCGCTTTT TGGATTTCATC GACTGTGGCC GGCTGGGTG TGCGGACCGC TATCAGGACA
 3661 TAGCGTTGGC TACCCGTGAT ATTGCTGAAG AGCTTGGCGG CGAATGGGCT GACCGCTTCC
 3721 TCGTCTTCA CGGTATCGCC GCTCCCGATT CGCAGCGCAT CGCCTTCTAT CGCCTTCTTG
 3781 ACGAGTTCTT CTGAGCGGGG CTCTGGGGTT CGAAATGACC GACCAAGCGA CGCCCAACCT
 3841 GCCATCACGA GATTTGATT CCACCGCCGC CTTCTATGAA AGGTTGGGCT TCGGAATCGT
 3901 TTTCCGGGAC GCCGGCTGGA TGATCCTCCA CGCGGGGAT CTCATGCTGG AGTTCTTCG
 3961 CCACCCCAAC TTGTTTATTG CAGCTTATAA TGTTTACAAA TAAAGCAATA GCATCACAAA
 4021 TTTCACAAAT AAAGCATTTC TTTCACTGCA TTCTAGTTGT GGTTTGTCCA AACTCATCAA
 4081 TGTATCTTAT CATGCTCTGTA TACCGTCGAC CTCTAGCTAG AGCTTGGGCT AATCATGGTC
 4141 ATAGCTGTT CCTGTGTGAA ATTGTTATCC GCTCACAATT CCACACAAACA TACGAGCCGG
 4201 AAGCATAAAAG TGTAAAGCCT GGGGTGCCCTA ATGAGTGTAGC TAACTCACAT TAATTGCGT
 4261 GCGCTCACTG CCCGCTTCC AGTCGGGAAA CCTGCTGTC CAGCTGCATT AATGAATCGG
 4321 CCAACCGCGG GGGAGAGGGCG GTTTGCGTAT TGGGGCCTCT TCCGCTTCC CGCTCACTGA
 4381 CTCGCTGCGC TCGGTGTTT GGCTGCGGCC AGCGGTATCA GCTCACTCAA AGGCGGTAAT
 4441 ACGGTTATCC ACAGAACAG GGGATAACGC AGGAAAGAAC ATGTGAGCAA AAGGCCAGCA

Figure 26M

4501 AAAGGCCAGG AACCGTAAAA AGGCCGCGTT GCTGGCGTTT TTCCATAGGC TCCGCCCGCC
 4561 TGACGAGCAT CACAAAATC GACGCTCAAG TCAGAGGTGG CGAAACCCGA CAGGACTATA
 4621 AAGATACCAAG GCGTTCCCC CTGGAAGCTC CCTCGTGCAC CGTCTCTGTT CGACCCCTGCC
 4681 GCTTACCGGA TACCTGTCCG CCTTCTCCC TTGCGGAAGC GTGGCGCTTT CTCAATGCTC
 4741 ACGCTGTAGG TATCTCAGTT CGGTGTAGGT CGTTCGCTCC AAGCTGGGCT GTGTGCACGA
 4801 ACCCCCCGTT CAGCCCGACC GCTGCGCCTT ATCCGGTAAC TATCGTCTTG AGTCCAACCC
 4861 GGTAAGACAC GACTTATCCG CACTGGCAGC AGCCACTGGT AACAGGATTA GCAGAGCGAG
 4921 GTATGTAGGC GGTGCTACAG AGTTCTTGAA GTGGTGGCCT AACTACGGCT AACTAGAAG
 4981 GACAGTATTG GGTATCTGCG CTCTGCTGAA GCCAGTTACC TTGGAAAAA GAGTTGGTAG
 5041 CTCTTGATCC GGCAAACAAA CCACCGCTGG TAGCGGTTGGT TTTTTGTTT GCAAGCAGCA
 5101 GATTACGCGC AGAAAAAAAG GATCTCAAGA AGATCCTTG ATCTTTCTA CGGGGTCTGA
 5161 CGCTCAGTGG AACGAAAAC CACGTTAAGG GATTTGGTC ATGAGATTAT CAAAAGGAT
 5221 CTTCACCTAG ATCCTTTAA ATTAAAAATG AAGTTTTAAA TCAATCTAAA GTATATATGA
 5281 GTAAACTTGG TCTGACAGTT ACCAATGCTT AATCAGTGAG GCACCTATCT CAGCGATCTG
 5341 TCTATTCGT TCATCCATAG TTGCTGACT CCCCGTCGT TAGATAACTA CGATACGGGA
 5401 GGGCTTACCA TCTGGCCCCA GTGCTGCAAT GATACCGCGA GACCCACGCT CACCGGCTCC
 5461 AGATTATCA GCAATAAACCG AGCCAGCCGG AAGGGCCGAG CGCAGAAGTG GTCCTGCAAC
 5521 TTTATCCGCC TCCATCCAGT CTATTAATTG TTGCCGGGAA GCTAGAGTAA GTAGTTGCC
 5581 AGTTAATAGT TTGCGCAACG TTGTTGCCAT TGCTACAGGC ATCGTGGTGT CACGCTCGTC
 5641 GTTTGGTATG GCTTCATTCA GCTCCGGTTC CCAACGATCA AGGCAGGTTA CATGATCCCC
 5701 CATGTTGTGC AAAAAGCGG TTAGCTCCTT CGGTCCCTCG ATCGTTGTCA GAAGTAAGTT
 5761 GGCGCAGTG TTATCACTCA TGGTTATGGC AGCACTGCAT AATTCTCTTA CTGTCATGCC
 5821 ATCCGTAAGA TGCTTTCTG TGACTGGTGA GTACTCAACC AAGTCATTCT GAGAATAGTG
 5881 TATGCGCGA CCGAGTTGCT CTTGCCGGC GTCAATACGG GATAATACCG CGCCACATAG
 5941 CAGAACTTTA AAAGTGCTCA TCATTGGAAA ACAGTTCTTCG GGGCGAAAAC TCTCAAGGAT
 6001 CTTACCGCTG TTGAGATCCA GTTCGATGTA ACCCACTCGT GCACCCAACT GATCTTCAGC
 6061 ATCTTTACT TTCACCAGCG TTTCTGGGTG AGCAAAAACA GGAAGGCAAAT ATGCCGAAA
 6121 AAAGGGAATA AGGGCGACAC GGAAATGTTG AATAACTCATA CTCTTCCTT TTCAATATTA
 6181 TTGAAGCATT TATCAGGGTT ATTGTCTCAT GAGCGGATAC ATATTTGAAT GTATTTAGAA
 6241 AAATAAACAA ATAGGGTTC CGCGCACATT TCCCCGAAAAA GTGCCACCTG ACGTC

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Figure 26N

LOCUS pSBS5186-N 6319 bp DNA CIRCULAR SYN
 DEFINITION Ligation of 5186 into NVF (KpnI, BamHI)
 ACCESSION pSBS5186-N
 REFERENCE 1 (bases 1 to 6319)
 FEATURES Location/Qualifiers
 CDS 956..1003
 /gene="NLS"
 /product="Nuclear Localization Signal"
 CDS 1004..1597
 /gene="ZFP"
 /product="LSR 8A-7B"
 CDS 1598..1840
 /gene="VP16"
 /product="VP16 activation domain"
 CDS 1841..1867
 /gene="FLAG"
 /product="FLAG epitope"
 CDS 3064..3947
 /gene="Neo"
 /product="neomycin resistance"
 CDS complement (5321..6181)
 /gene="Amp "
 /product="Ampcillin resistance"
 BASE COUNT 1449 a 1687 c 1651 g 1532 t
 ORIGIN

 1 GACGGATCGG GAGATCTCCC GATCCCCTAT GGTCGACTCT CAGTACAATC TGCTCTGATG
 61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTCGCG
 121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAACCTGC
 181 TTAGGGTTAG GCGTTTGCCTG CTGCTTCGCG ATGTACGGGC CAGATATACG CGTTGACATT
 241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGTC ATTAGTTCAT AGCCCATATA
 301 TGGAGTTCCG CGTTACATCAA CTTACGGTAA ATGGCCGCC TGGCTGACCG CCCAACGACC
 361 CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC
 421 ATTGACGTCA ATGGGTGGAC TATTACGGT AAAC TGCCCA CTTGGCAGTA CATCAAGTGT
 481 ATCATATGCC AAGTACGCC CCTATTGACG TCAATGACGG TAAATGGCC GCCTGGCATT
 541 ATGCCAGTA CATGACCTTA TGGGACTTTCTA CTACTTGGCA GTACATCTAC GTATTAGTCA
 601 TCGCTATTAC CATGGTGATG CGGTTTGGC AGTACATCAA TGGGCGTGGGA TAGCGGTTTG
 661 ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC
 721 AAAATCAACG GGACTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGCG
 781 GTAGGGCTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCA
 841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC
 901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGAA TTCGCTAGCG CCACCATGGC
 961 CCCCAAGAAG AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT
 1021 CTGCCACATC CAGGGCTGTG GTAAAGTTA CGGCCAGTCC GGCGCCCTGA CCCGCCACCT
 1081 GCGCTGGCAC ACCGGCGAGA GGCCTTCAT GTGTACATGG TCCTACTGTG GTAAACGCTT
 1141 CACCCGCTCC GACCACCTGA CCCGCCACAA GCGTACCCAC ACCGGTGAGA AGAAATTGCG
 1201 TTGTCCGGAA TGTCCGAAGC GCTTCATGCG CTCCGACAAC CTGGCGGAGC ACAACAAAGAC
 1261 CCACCAGAAC AAGAAGGGTG GATCTGGTGA TGGTGGCCGT CGCGGTGGCG GTTCTGGCAA
 1321 GAAGAACAG CACATCTGCC ACATCCAGGG CTGTGGTAAA GTTACGGCC GCTCCTCCGC

Figure 26O

1381 CCTGACCCGC CACCTGCGCT GGCACACCGG CGAGAGGCCT TTCATGTGTA CATGGTCCTA
 1441 CTGTGGTAAA CGCTTCACCC AGCGCGCCCA CCTGGAGCGC CACAAGCGTA CCCACACCGG
 1501 TGAGAAAGAAA TTGCTTGTG CGGAATGTCC GAAGCGCTTC ATGCGCTCCG ACACCCCTGCG
 1561 CGAGCACATC AAGACCCACC AGAACAAAGAA GGGTGGATCC GCCCCCCCAGA CCGATGTCAG
 1621 CCTGGGGGAC GAGCTCCACT TAGACGGCGA GGACGTGGCG ATGGCGCATG CCGACCGCCT
 1681 AGACGATTTC GATCTGGACA TGTGGGGGA CGGGGATTC CCAGGGGCCGG GATTTACCC
 1741 CCACGACTCC GCCCCCTACG GCGCTCTGGA TATGGCCGGC TTGAGTTTG AGCAGATGTT
 1801 TACCGATGCC CTTGGAATTG ACGAGTACGG TGGGGGCAGC GACTACAAGG ACGACGATGAA
 1861 CAAGTAAGCT TCTCGAGTCT AGAGGGCCCG TTTAAACCCG CTGATCAGCC TCGACTGTG
 1921 CTTCTAGTTG CCAGCCATCT GTTGTGGCC CCTCCCCCGT GCCTTCCTTG ACCCTGGAAG
 1981 GTGCCACTCC CACTGTCCCT TCCTAATAAA ATGAGGAAAT TGCAATCGCAT TGTCTGAGTA
 2041 GGTGTCAATT TATTCTGGGG GGTGGGGTGG GGCAGGACAG CAAGGGGGAG GATTGGGAAG
 2101 ACAATAGCAG GCATGCTGGG GATGGGGTGG GCTCTATGGC TTCTGAGGCG GAAAGAACCA
 2161 GCTGGGGCTC TAGGGGGTAT CCCCCACGCGC CCTGTAGCGG CGCATTAAAGC GCGGCGGGTG
 2221 TGGTGGTTAC GCGCAGCGTG ACCGCTACAC TTGCCAGCGC CCTAGCGCCC GCTCCTTTCG
 2281 CTTTCTTCCC TTCCCTTCTC GCCACGTTCG CGGGCTTTC CCGTCAAGCT CTAAATCGGG
 2341 GCATCCCTT AGGGTTCAGA TTTAGTGTCT TACGGCACCT CGACCCAAA AAACCTGATT
 2401 AGGGTGATGG TTCACGTAGT GGGCCATCGC CCTGTAGAC GGTTTTTCGC CCTTGACGT
 2461 TGGAGTCCAC GTTCTTAAT AGTGGACTCT TGTTCCAAC TGGAAACAACA CTCAACCC
 2521 TCTCGGTCTA TTCTTTGAT TTATAAGGGG TTTTGGGGAT TTGGCCTAT TGGTTAAAAA
 2581 ATGAGCTGAT TTAACAAAAA TTTAACGCGA ATTAATTCTG TGGATGTGT GTCAGTTAGG
 2641 GTGTGAAAG TCCCCAGGCT CCCCAGGCAG CGAGAAGTAT GCAAAGCATG CATCTAATT
 2701 AGTCAGCAAC CAGGTGTGGA AAGTCCCCAG GCTCCCCAGC AGGCAGAAAGT ATGCAAAGCA
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 2821 CTCCGCCAG TTCCGCCAT TCTCCGCCCC ATGGCTGACT AATTTTTTT ATTATG
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 2941 GCCTAGGCTT TTGCAAAAG CTCCCGGGAG CTTGTATATC CATTTCGGA TCTGATCAAG
 3001 AGACAGGATG AGGATCGTT CGCATGATTG AACAAAGATGG ATTGCACGCA GGTTCTCCGG
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 3361 TATCCATCAT GGCTGATGCA ATGCCGCCGC TGCACTCGCT TGATCCGGCT ACCTGCC
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 3781 GCATGCCCTT CTATGCCCTT CTTGACGAGT TCTTCTGAGC GGGACTCTGG GGTTCGAAAT
 3841 GACCGACCAA GCGACGCCA ACCTGCCATC ACGAGATTC GATCCACCG CGCC
 3901 TGAAAGGTTG GGCTTCGGAA TCGTTTCCG GGACGCCGGC TGGATGATCC TCCAGCGC
 3961 GGATCTCATG CTGGAGTTCT TCGCCCCACCC CAAACTGTTT ATTGCAGCTT ATAATGGTTA
 4021 CAAATAAAGC AATAGCATCA CAAATTTCAC AAATAAAGCA TTTTTTCAC TGCATTCTAG
 4081 TTGTGGTTG TCCAAACTCA TCAATGTATC TTATCATGTC TGTATACCGT CGACCTCTAG
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 4201 AATTCCACAC AACATACGAG CGCGAAGCAT AAAGTGTAAA GCCTGGGGTG CCTAATGAGT
 4261 GAGCTAACTC ACATTAATTG CGTTGGCGTC ACTGCCCGCT TTCCAGTCGG GAAACCTGTC
 4321 GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTTGC GTATTGGCG

Figure 26P

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 4501 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC
 4561 GTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG
 4621 GTGGCGAAC CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCCCTGGAA GCTCCCTCGT
 4681 GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACTG TCCGCCTTTC TCCCTTCGGG
 4741 AAGCGTGGCG CTTTCTCAAT GCTCACGCTG TAGGTATCTC AGTCGGTGT AGGTCCGTTCG
 4801 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTCAGCCC GACCGCTGCG CCTTATCCGG
 4861 TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC
 4921 TGGTAACAGG ATTAGCAGAG CGAGGTATGT AGGCAGGTCT ACAGAGTTCT TGAAGTGGTG
 4981 GCCTAACTAC GGCTACACTA GAAGGACAGT ATTTGGTATC TGCGCTCTGC TGAAGCCAGT
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 5161 TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT
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 5461 GCGAGACCCA CGCTCACCGG CTCCAGATTT ATCAGCAATA AACCAAGCCAG CCGGAAGGGC
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 5581 GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGCCT AACGTTGTTG CCATTGCTAC
 5641 AGGCATCGTG GTGTACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG
 5701 ATCAAGGCGA GTTACATGAT CCCCCATGTT GTGCAAAAAA GCGGTTAGCT CCTTCGGTCC
 5761 TCCGATCGTT GTCAGAGTA AGTTGGCCGC AGTGTATCA CTCATGGTTA TGGCAGCACT
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 5881 AACCAAGTCA TTCTGAGAAT AGTGTATGCG GCGACCGAGT TGCTCTTGCC CGCGTCAAT
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 6001 TTCGGGGCGA AAACTCTCAA GGATCTTACC GCTGTTGAGA TCCAGTTCGA TGTAACCCAC
 6061 TCGTGCACCC AACTGATCTT CAGCATCTT TACTTTCACC AGCGTTTCTG GGTGAGCAAA
 6121 AACAGGAAGG CAAAATGCCG CAAAAAAAGGG AATAAGGGCG ACACGGAAAT GTTGAATACT
 6181 CATACTCTTC CTTTTTCAAT ATTATTGAAG CATTTATCAG GGTTATTGTC TCATGAGCGG
 6241 ATACATATTG GAATGTATT AGAAAAATAA ACAAAATAGGG GTTCCGCGCA CATTCCCCG
 6301 AAAAGTGCCA CCTGACGTC

//

Figure 26Q

LOCUS pSBS5205-N 6295 bp DNA CIRCULAR SYN
 DEFINITION Ligation of 5205 into NVF (KpnI, BamHI)
 ACCESSION pSBS5205-N
 REFERENCE 1 (bases 1 to 6295)
 FEATURES Location/Qualifiers
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 /product="Nuclear Localization Signal"
 CDS 1004..1573
 /gene="ZFP"
 /product="LSR 1A-7B"
 CDS 1574..1816
 /gene="VP16"
 /product="VP16 activation domain"
 CDS 1817..1843
 /gene="FLAG"
 /product="FLAG epitope"
 CDS 3040..3923
 /gene="Neo"
 /product="neomycin resistance"
 CDS complement (5297..6157)
 /gene="Amp "
 /product="Ampcillin resistance"
 BASE COUNT 1448 a 1677 c 1643 g 1527 t
 ORIGIN

 1 GACGGATCGG GAGATCTCCC GATCCCCTAT GGTCGACTCT CAGTACAATC TGCTCTGATG
 61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTCG
 121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAACCTGC
 181 TTAGGGTTAG GCGTTTGC GCGCTTCGCG ATGTACGGC CAGATATAACG CGTTGACATT
 241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGTC ATTAGTTCAT AGCCCATATA
 301 TGGAGTTCCG CGTTACATCAA CTTACGGTAA ATGGCCGCC TGGCTGACCG CCCAACGACC
 361 CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCAATA GGGACTTTCC
 421 ATTGACGTCA ATGGGTGGAC TATTACGGT AAACGCCCC CTTGGCAGTA CATCAAGTGT
 481 ATCATATGCC AAGTACGCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT
 541 ATGCCAGTA CATGACCTTA TGGGACTTTC CTACTTGGCA GTACATCTAC GTATTAGTCA
 601 TCGCTATTAC CATGGTGATG CGGTTTGGC AGTACATCAA TGGGCGTGGGA TAGCGGTTTG
 661 AACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTG TTTTGGCACC
 721 AAAATCAACG GGACTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGCG
 781 GTAGGGCTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCA
 841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC
 901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGAA TTCGCTAGCG CCACCATGGC
 961 CCCCAAGAAG AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT
 1021 CTGCCACATC CAGGGCTGTG GTAAAGTTA CGGCGAGCGC GGCACCTGA CCCGCCACCT
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 1141 CACCGACCCG GGCGCCCTGG TGCGCCACAA GCGTACCCAC ACCGGTGAGA AGAAATTG
 1201 TTGTCCGGAA TGTCCGAAGC GCTTCATGCG CTCCGACAAAC CTGACCCAGC ACATCAAGAC
 1261 CCACCAGAAC AAGAAGGGTG GATCTGGTGA TGGCAAGAAG AAGCAGCACA TCTGCCACAT
 1321 CCAGGGCTGT GGTAAAGTTT ACGGCCAGTC CGGCACCTG ACCCGCCACC TGCCTGGCA

Figure 26R

1381 CACCGGGCAG AGGCCTTCA TGTGTACATG GTCCTACTGT GGTAAACGCT TCACCCAGTC
 1441 CTCCGACCTG CAGCGCCACA AGCGTACCCA CACCGGGAG AAGAAATTG CTTGTCGGA
 1501 ATGTCCGAAG CGCTTCATGC GCTCCGACGC CCTGGCCCGC CACATCAAGA CCCACCAAGAA
 1561 CAAGAAGGGT GGATCCGCC CCCCCGACGA TGTCAGCCTG GGGGACGAGC TCCACTTAGA
 1621 CGGCGAGGAC GTGGCGATGG CGCATGCCGA CGCGCTAGAC GATTCGATC TGGACATGTT
 1681 GGGGGACGGG GATTCCCCGG GGCCGGGATT TACCCCCAC GACTCCGCC CCTACGGCGC
 1741 TCTGGATATG GCCGGCTTCG AGTTTGAGCA GATGTTTAC GATGCCCTG GAATTGACGA
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 1861 GGCCCGTTA AACCCGCTGA TCAGCCTCGA CTGTGCCCT TAGTTGCCAG CCATCTGTTG
 1921 TTTGCCCTC CCCCCTGCCT TCCTTGACCC TGGAAAGGTG CACTCCCACT GTCCTTCC
 1981 AATAAAATGA GGAAATTGCA TCGCATTGTC TGACTAGGTG TCATTCTATT CTGGGGGGTG
 2041 GGGTGGGGCA GGACAGCAAG GGGGAGGATT GGGAAAGACAA TAGCAGGCAT GCTGGGGATG
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 3001 TGATTGAACA AGATGGATTG CACGCAAGTT CTCCGGCCGC TTGGGGGGAG AGGCTATTG
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 3241 TCGACGTTGT CACTGAAGCG GGAAGGGACT GGCTGCTATT GGGCGAAGTG CGGGGGCAGG
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 4201 AAGCATAAAAG TGTAAAGCCT GGGGTGCCTA ATGAGTGTAGC TAACTCACAT TAATTGCGT
 4261 GCGCTCACTG CCCGCTTCC AGTCGGGAAA CCTGTCGTG CAGCTGCATT AATGAATCGG
 4321 CCAACGCGCG GGGAGAGGGCG GTTGCCTAT TGGGCCTCT CGCTCACTGA

Figure 26S

4381 CTCGCTGCGC TCGGTGTTT GGCTGCGCG AGCGGTATCA GCTCACTCAA AGGCAGTAAT
 4441 ACGGTTATCC ACAGAATCAG GGGATAACGC AGGAAAGAAC ATGTGAGCAA AAGGCCAGCA
 4501 AAAGGCCAGG AACCGTAAAA AGGCCGCGT GCTGGCGTT TTCCATAGGC TCCGCCCCCC
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 4861 GGTAAAGACAC GACTTATCGC CACTGGCAGC AGCCACTGGT AACAGGATTA GCAGAGCGAG
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 4981 GACAGTATTT GGTATCTGCG CTCTGCTGAA GCCAGTTACC TTCGGAAAAA GAGTTGGTAG
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 5521 TTTATCCGCC TCCATCCAGT CTATTAATTG TTGCGGGGAA GCTAGAGTAA GTAGTCGCC
 5581 AGTTAATAGT TTGCGCAACG TTGTTGCCAT TGCTACAGGC ATCGTGGTGT CACGCTCGTC
 5641 GTTTGGTATG GCTTCATTCA GCTCCGGTTC CCAACGATCA AGGGCAGTTA CATGATCCCC
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 5821 ATCCGTAAGA TGCTTTCTG TGACTGGTGA GTACTCAACC AAGTCATTCT GAGAATAGTG
 5881 TATGCGCGA CCGAGTTGCT CTTGCCCGC GTCAATACGG GATAATACCG CGCCACATAG
 5941 CAGAACTTTA AAAGTGTCA TCATTGGAAA ACGTTCTTCG GGGGAAAC TCTCAAGGAT
 6001 CTTACCGCTG TTGAGATCCA GTTCGATGTA ACCCACTCGT GCACCCAAC GATCTTCAGC
 6061 ATCTTTACT TTCACCAGCG TTTCTGGGTG AGCAAAACAA GGAAGGCAAA ATGCCGAAA
 6121 AAAGGAAATA AGGGCGACAC GGAAATGTT AATACTCATA CTCTTCCTT TTCAATATTA
 6181 TTGAAGCATT TATCAGGGTT ATTGTCTCAT GAGCGGATAC ATATTTGAAT GTATTTAGAA
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Figure 26T

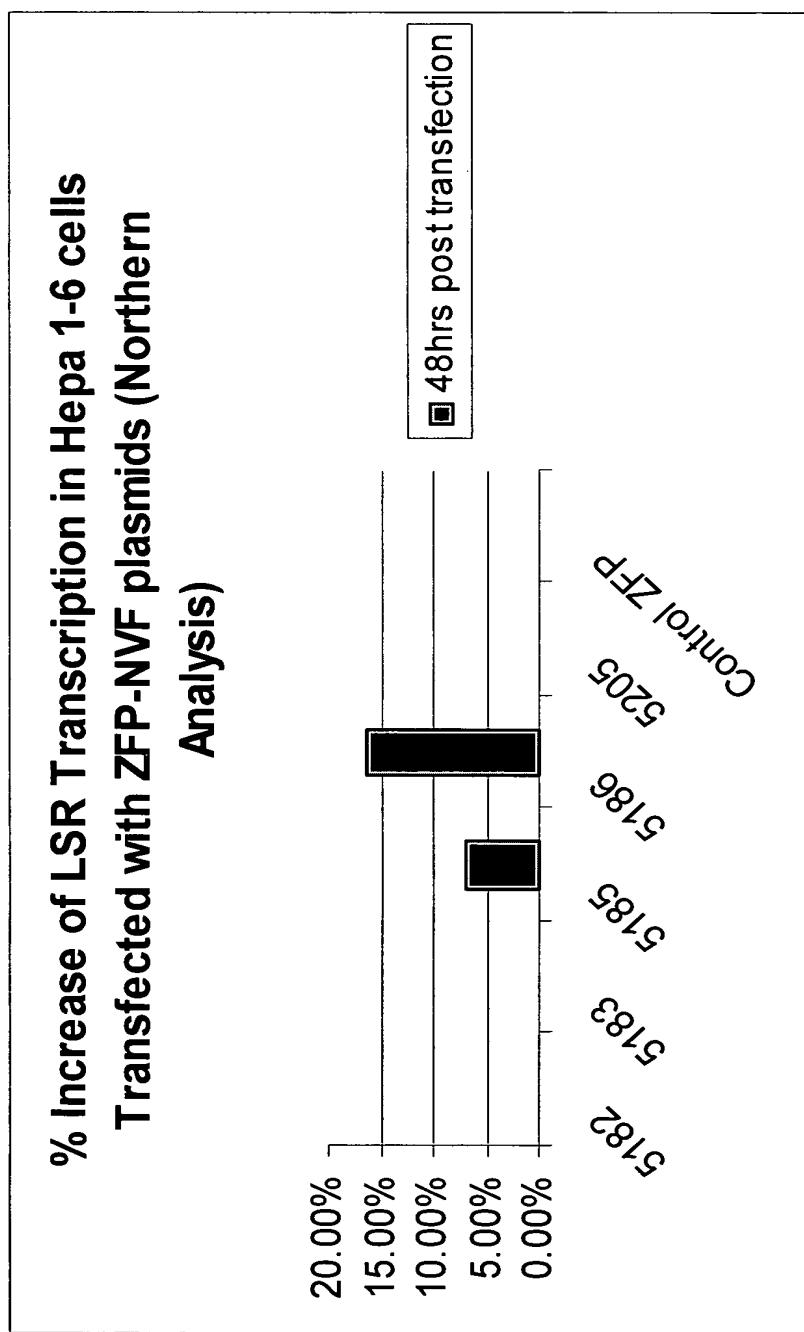


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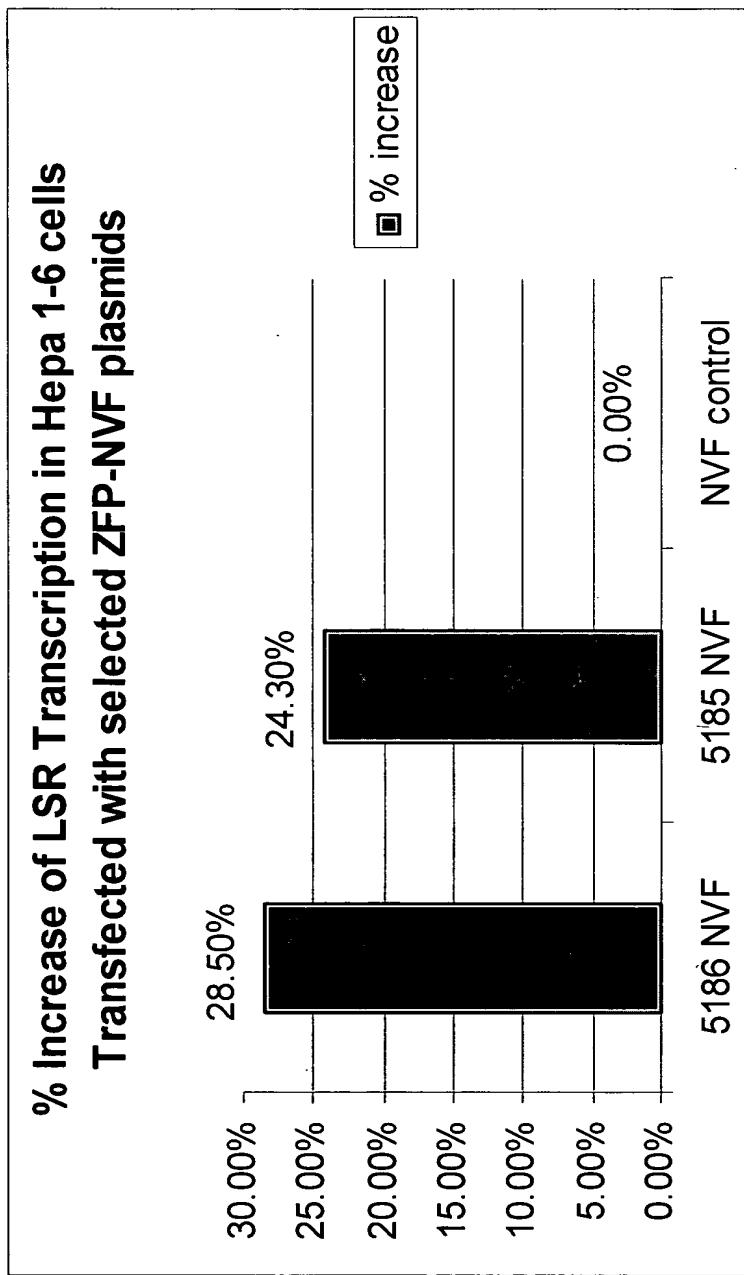


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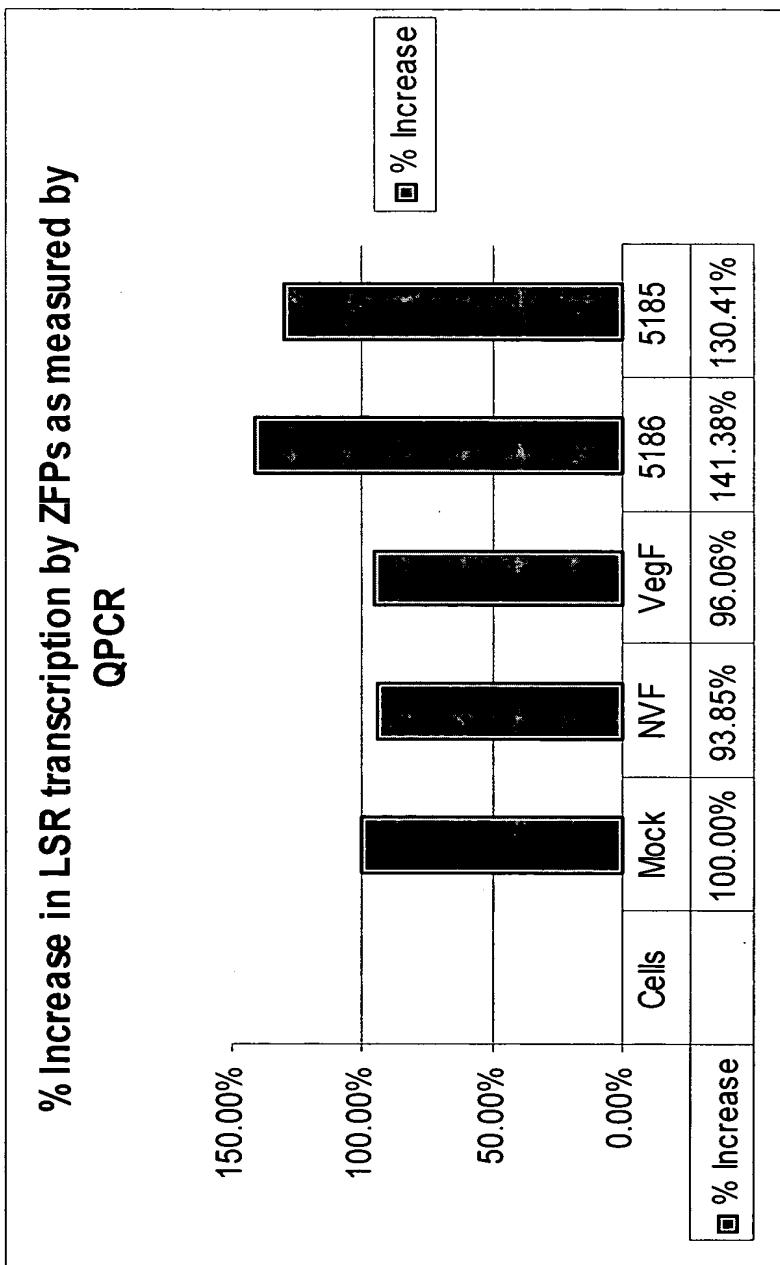


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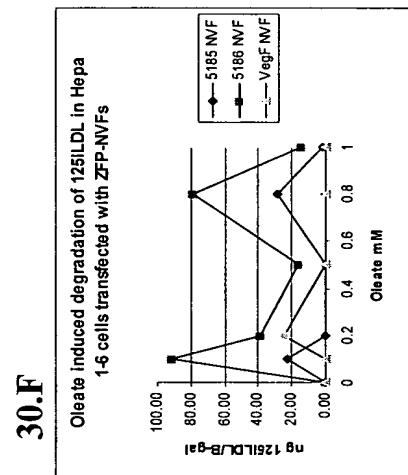
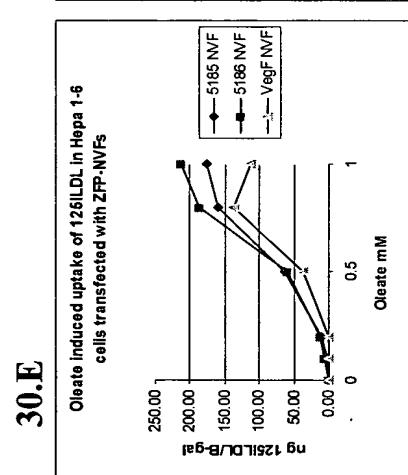
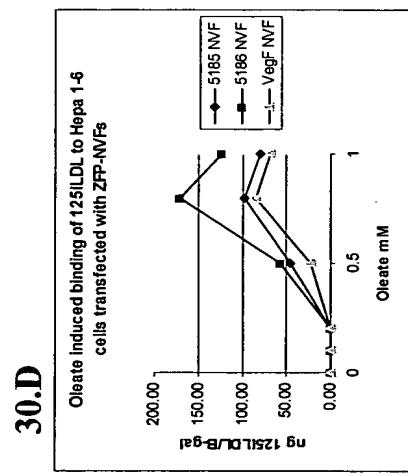
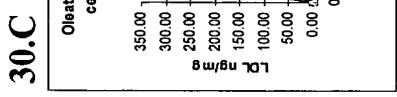
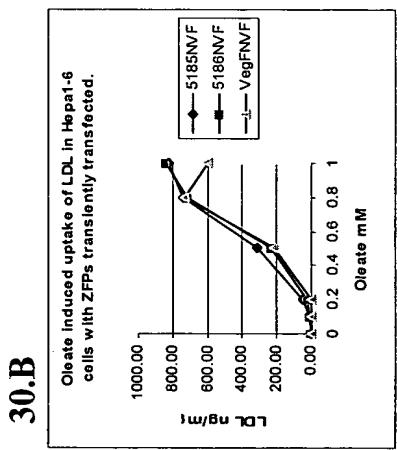
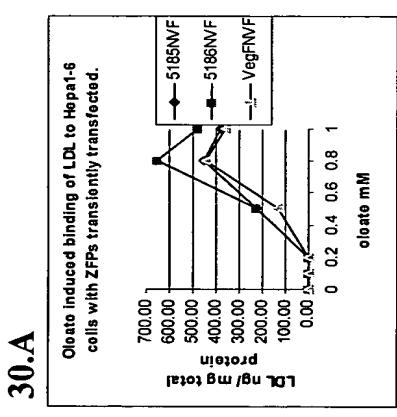


Figure 30

50/54

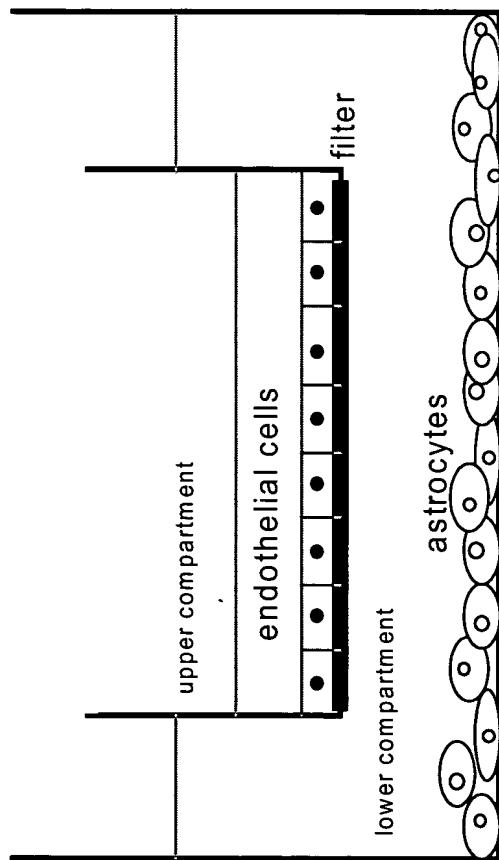


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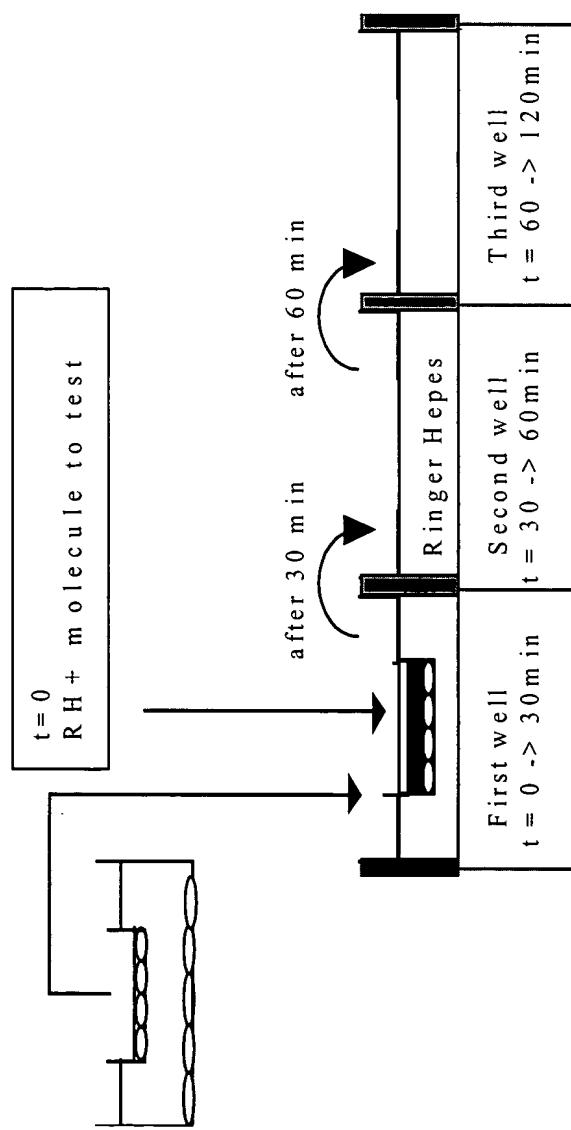


Figure 32

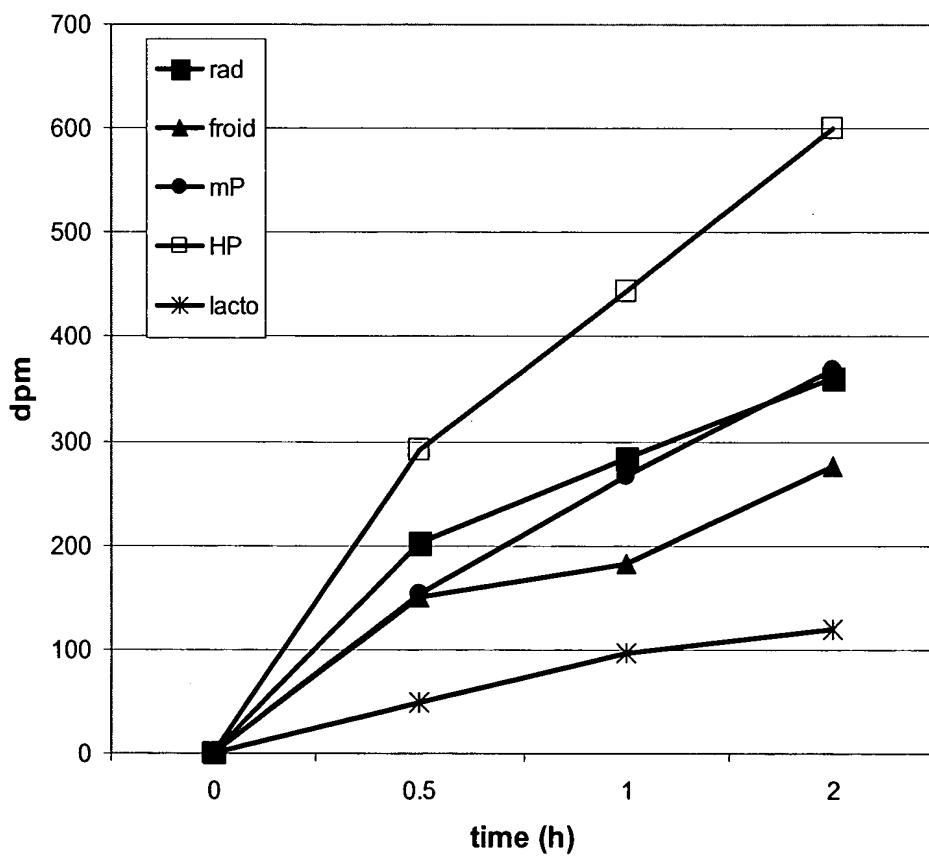
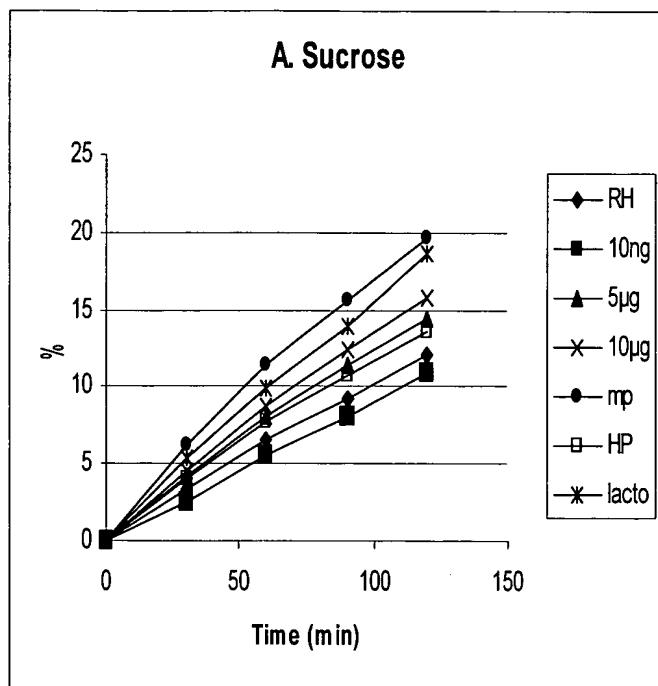
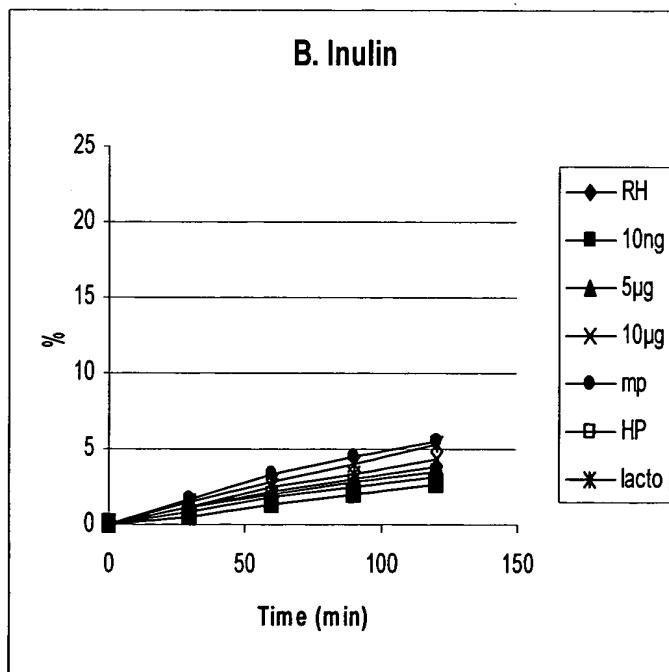


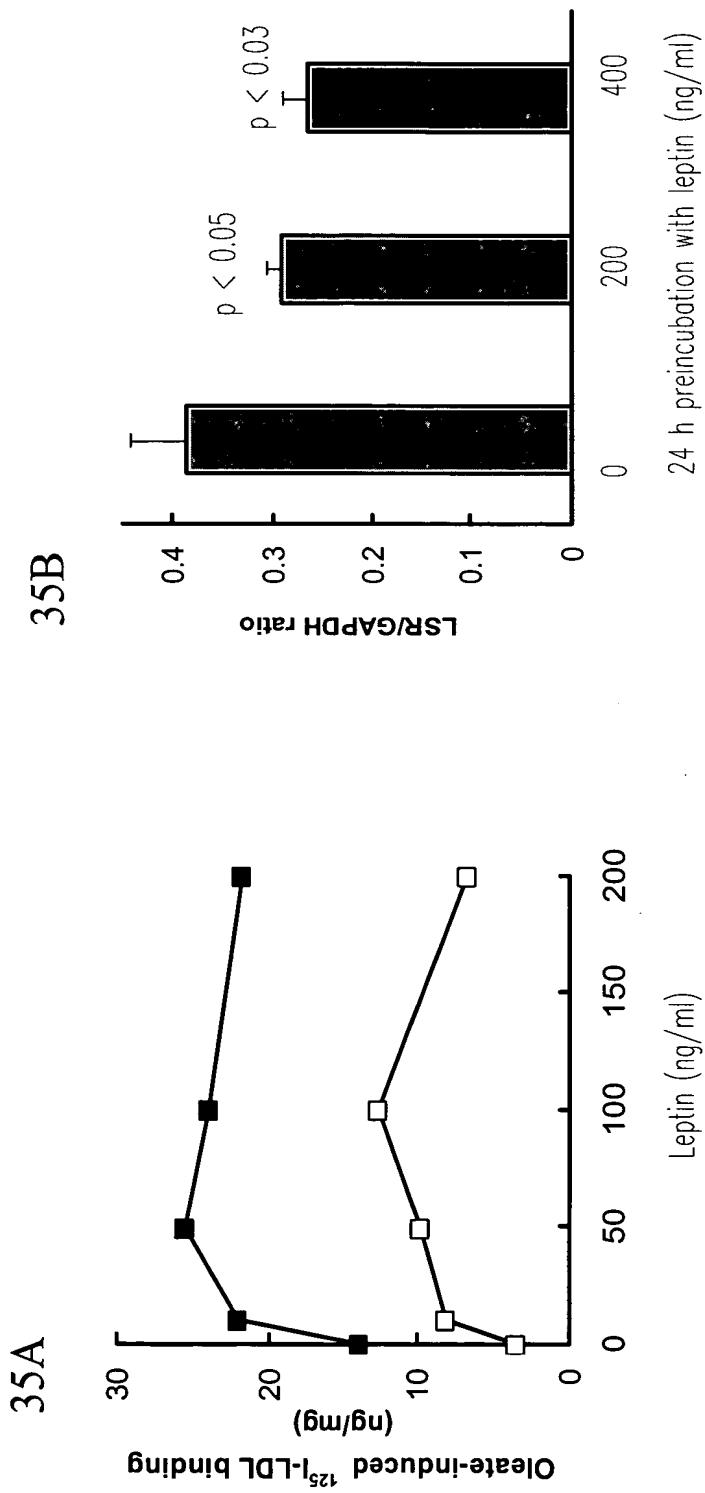
Figure 33

34A



34B

**Figure 34**

**Figure 35**